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CHRONICLE or THE WORLD HEALTH ORGANIZATION

NUL HEALTH
NEIGHANNES IN SOUTH EAST ASIA
NYRONNENTAL SANITATION
NUTRITION
CHOLERA
BILHARZIASIS
PUBLIC HEALTH IN NO SELEGOVERNING TERRITORIES

WORLD HEALTH ORGANIZATION

PALAIS DES NATIONS

GENEVA

The World Health Organization (WHO) is a specialized agency of the United Nations and represents the culimination of efforts to establish a single intergovernmental health agency. As such it inherits the functions of antecedent organizations such as the Office Int mational d Hygeine Publique the Health Organization of the League of Nations, and the Health Division of UNRIRA

WHO had its origin in the proposal made at the United Nations Conference held in San Francisco in 1945 that a specialized agency be created to deal with all matters relating to health. In 1946 representatives of 61 governments met at the International Health Conference. New York drafted and signed the WHO Constitution and established an Internation Commission to serve until the Constitution could be ratified by 26 Member States of the United Nations. The Constitution came into force on 7 April 1948 the first World Health Assembly met in Geneva in June 1948 and on 1 September 1948 the permanent Organization was established.

The work of the Organization is carried out by three organs the World Health Assembly the supreme authority to which all Member States send delegates the Executive Board the executive organ of the Health Assembly consisting of 18 persons designated by as many Member States and a Scoretanat under the

Director General

The scope of WHO s interests and activities exceeds that of any previous international health organization and includes in addition to major projects relating to malaria tuberculosis venereal diseases maternal and child health nutrition and environmental sanitation special programmes on public-health administration epidemic diseases mental health professional and technical training and other public health subjects 11 is also continuing work begun by carlier organizations on biological standardization unification of pharmacopociess health statistics international sanitary regulations and the collection and dissemination of technical information including epidemiological statistics.

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The Chronicle of the Horld Health Organization is published monthly in English French Spanish Chinese and Russan editions. It contains peneral information on the Organization its principal activities the meetings of its expert committees and other advisory bodies as well as summaries of its main technical publications. Material from the Chronicle may be reproduced in the professional press providing due acknowledgement is mad-

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CHRONICLE THE WORLD HEALTH ORGANIZATION

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RECENT AND FORTHCOMING MEFTINGS

0101

1949	
19 21 September	Panel of Experts on the Revision of the Questionnaire for Trusteeship Territories and the Standard Form for Non Self Governing Territories Geneva
19 24 September	WHO Expert Committee on Plague first session Geneva
26-28 September	WHO Regional Committee for South East Asia second session New Delhi
26 September 5 October	WHO Expert Committee on the Unification of Pharma copoetas fifth session Geneva
10-20 October	WHO Expert Committee on Venereal Infections third session Washington D.C.
12 15 October	WHO Regional Committee for the Eastern Mediterranean second session. Geneva
12 20 October	WHO Expert Committee on Venereal Infections Sub- committee on Serology and Laboratory Aspects Washington D C
24 28 October	Joint FAO/WHO Expert Committee on Nutrition Geneva
24 29 October	Joint OIHP/WHO Study Group on African Schistosomiasis first session Cairo
18 19 November	Joint OIHP/WHO Study Group on Cholera third session New Delhi
1 6 December	WHO Yellow Fever Panel first session Geneva
5 14 December	WHO Expert Committee on International Epidemiology and Quarantine second session. Geneva.
12 14 December	Joint ILO/WHO Expert Committee on the Hygiene of Scafarers first session Geneva
1950	
6 January	WHO Executive Board Standing Committee on Administration and Finance Geneva
9 14 January	WHO Expert Committee on Habit Forming Drugs second session Geneva
16 January	WHO Executive Board fifth session Geneva
6-11 February	WHO Expert Committee on Professional and Technical Education of Medical and Auxiliary Personnel first session Geneva
20-26 February	WHO Expert Committee on Nursing first session Geneva
February tentatively	Joint ILO/WHO Expert Committee on Industrial Hygiene first session Geneva
February tentatively	WHO Expert Committee on Health Statistics Subcommittee on the Definition of Stillbirth and Abortion
February tentatively	WHO Expert Committee on Health Statistics Subcommittee on Cancer
20 March tentatively	WHO Expert Committee on Health Statistics Subcommittee on Hospital Statistics
17 April tentatively	WHO Expert Group Meeting on Prematurity Geneva
20 April tentatively	WHO Expert Committee on Health Statistics second session
20-29 April	WHO Expert Committee on the Unification of Pharmaco poetas sixth session New York
8 May	Third World Health Assembly Geneva

MENTAL HEALTH

One of WHO's most difficult tasks is attempting to win acceptance of mental health as an integral part of the economic and social welfare of the world's peoples and as a sphere for international activity and cooperation. Psychology and psychiatry are comparatively new sciences full recognition has not yet been accorded to the concept of the human mind as the principal unexplored territory of the present age or to the physiological social and economic ramifications of mental health it can therefore be readily understood why this part of the WHO programme has been the subject of some controversy specifically in the case of the Economic and Social Council (Economic Committee Ninth Session) discussions of WHO's proposed contribution to the Expanded Programme of Technical Assistance proposals for which were accepted by a large majority at the Second World Health Assembly

It is perhaps natural that medical and economic interests should place emphasis primarily on keeping man alive and productive. Those who believe that this is not enough that a broader outlook is necessary are

FIG 1 EXPERT COMMITTEE ON MENTAL HEALTH FIRST BESSION



Standing from left to right Polessor A C Pacheco e Sil a Professor J Hådik Dr G R Ha g a es (WHO) Dr L Yū Lin Cheng D M V Go Indaamamy Dr T F Rodger seated Dr W C Me I ge (Chailman) consequently faced with the problem of proving that mental health is a 'paying proposition. Unfortunately this is somewhat difficult not only because of the dearth of statistical investigations but also because the effects of mental ill health are often not recognized as such or are concealed because of the social stigmata associated with mental disorders.

In well developed countries the economic implications of mental ill health are expressed in terms of man hours lost in industrial productivity and in the cost of treatment and other social services. The former is illustrated by an investigation conducted by the Medical Research Council of Great Britain which demonstrated that, in the factories surveyed psychoneurotic disorders caused a loss of productive time slightly greater than that due to the common cold. An example of the latter may be found in the US Veterans Administration mental hygiene clinics at which 14 500 veterans are seen 5 or more times each at a cost of about \$5.75 per patient visit. More important in this instance however is the estimation that without this outpatient treatment between 4 000 and 6 000 of these veterans would have to be confined to mental hospitals where under older methods of treatment they might have remained for from 3 months to 30 years at a cost of \$5.00 to \$10.00 per day.*

In underdeveloped territories economic development is often jeopri dized by psychological resistance to mensures intended to promote physical health and socio economic progress. It is necessary to break down this resistance through education and to apply present day knowledge of social psychology in an effort to avoid the maladjustments which may accompany industrialization of these territories.

The role of mental health in physical well being is gaining increasing recognition. Studies in psychosomatic medicine are recaling the psychological factors in many types of ill health including in addition to certain organic disorders proclivity to accidents and the epidemiology of habitual sexual promiscuity which is important in the prevention of

venereal disease 3

The social significance of mental health is evident in all aspects of human evistence. The success of human relationships of every type, is dependent upon the mental health of the individuals involved, and the effects of unsuccessful relationships are costly from the standpoint of economic losses as well as of human misery.

WHO has attempted to outline a programme in mental health which would include as many of these problems as possible and lay a foundation for future action. The Expert Committee on Mental Health has been given the responsibility of advising the Organization on ways and means of implementing this programme.

At its first session held in Geneva from 29 August to 2 September 1949 4 this committee sought to formulate principles and recommendations based on mental health problems as they actually exist throughout the world-a practical approach which should lend to practical solutions Its first consideration was the extreme differences among various countries in the level and scope of development of treatment facilities for all types of psychological disorder Faced with disparities such as 5 000 psychiatrists and 700 000 psychiatric beds for a population of 160 000 000 in the United States as compared with not more than 10 psychiatrists and less than 2 000 psychiatric beds for a population of 450 000 000 in China the com mittee was forced to conclude that it will not be possible within the foresee able future to provide throughout the world therapeutic psychiatric ficilities at the level already provided in the more developed countries let alone the level at which the well-developed countries are aiming (1 psychiatrist per 20 000 of the population) The ultimate solution of mental health problems therefore lies in the presentive application of psychiatric know ledge a field relatively untouched even in well-developed countries

With this idea of prevention as a keynote the Expert Committee on Mental Health formulated certain principles upon which the future WHO mental health programme should be based

1 Encouragement of incorporation into public health services of the responsibility for promoting the mental as well as the physical health of the community. This entuals comprehensive training of public health officers in mental as well as physical hygiene and might lead to the development of a specialty of mental hygiene and a profession of public mental hygiene officer. Changes in the education of nurses and other public health workers would also be necessary. The committee recommends that each ministry of health should include a section devoted to mental health. It is not intended however that an attempt be made to turn public health officers into psychiatrists their task in mental health work will be more concerned with the recognition and erudication of factors in the community which are harmful to the healthy psychological development of individuals rather than to the treatment of the results of those factors.

The fill will glook part in thi session

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D. T. F. Rodger Profit is M. Page. F. not i. T. pek. K. USA (Coal man) of the Coal man of the Co

DGRH gre es ChfM tl H Ih Secti n, WHO

- 2 Emphasis upon the therapeutic and preventive psychiatry of child hood. The shifful treatment of minor psychological disorders in childhood has a positive preventive effect so fir as adult psychiatry is concerned, and the application of preventive mental hygiene measures makes its greatest impact during infancy and childhood.
- 3 Application to local problems of the best scientific knowledge available and of the most appropriate methods, rather than reproduction of techniques employed in other countries
- 4 Development of clinical psychiatry in all countries. This is important not only because of its therapeutic value, but also because clinical psychiatry provides opportunities for teaching and research which in turn, may point the way to further applications of a preventive nature.
- 5 Integration of mental health activities wherever possible with other WHO programmes and co operation with the UN and its specialized agencies (particularly UNESCO and ILO), and with non governmental agencies such as the World Federation for Mental Health ⁵ The committee noted and made recommendations concerning WHO activities regarding alcoholism and drug addiction maternal and child health, international statistical classification of diseases injuries and causes of death, morbidity statistics venereal diseases and unification of pharmacopoetas. It discussed in considerable detail the UN study on the prevention of crime and treatment of offenders

Among other matters concerning which the committee made recommendations are the following

- 1 Education Priority should be given to
- (a) Recrating undergraduate medical education to ensure understanding of normal psychological development and of the origin and nature of common psychological disorders
- (b) Education of public health workers The committee recommended that WHO sponsor in collaboration with an internationally known institute of public health experimental postgraduate courses in preventive mental health work for public health officers already in the field
 - (c) Special training for public health nurses
- (d) The possibility of training facilities for specialist public mental health officers
- In postgraduate psychiatric education a dynamic conception which would integrate biological psychological social and anthropological sciences should be stressed. The committee specifically recommended that WHO assist in developing in each region a centre for postgraduate teaching of all members of the psychiatric term including psychiatrists.

clinical psychologists psychiatric social workers psychiatric nurses and other psychiatric auxiliaries

- Coloccition of information. The committee recommended that WHO serie as a collection centre and clearing house for information regarding treatment facilities relevant statistics education legislation crime alcobolism and drug addiction and public attitudes as these relate to mental health.
- 3 Advisors and demonstration services to governments. It was suggested that a consultant be sent to any country requesting these services. The consultant would wherever possible collaborate with the local experts in surveying the needs of the country and outlining a plan of action. The Republic of the Philippines is the first country to request WHO aid in mental health?
- 4 Research The committee recommended that WHO foster research along the following lines
- (a) Biological psychological and cultural determinants of personality (b) Relationship between individual personality and patterns of group behaviour and relationships
 - (c) Effects of rapid changes of culture pattern on mental health and the
- means of preventing and militating any ill effects of such changes
 (d) The extent to which the incidence of psychosomatic affections is influenced by social economic and cultural factors and by individual characteristics and personality structure
- (r) Relationship between psychological disorders or states on the one hand and infective processes nutritional deficiencies and biochemical disturbances on the other
 - (f) Etiology and treatment of psychiatric disorders

The report on the first session of the Expert Committee on Mental Health will be published after approval by the Executive Board in the World Health Organi atton. Technical Report Series

See o 1

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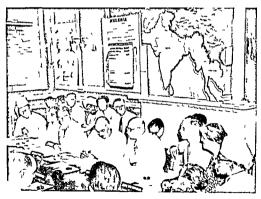
See p 32

NEW HEALTH PROGRAMMES IN SOUTH-EAST ASIA

The Regional Committee for South East Asia met, for the second time from 26 to 28 September 1949 at New Delhi 1. The general principles governing improvement in the health conditions of the population had already been discussed and agreed upon by the WHO expert committees and the World Health Assembly. Consequently the purpose of this brief session was not to study these principles again but rather to consider ways and means for implementing them and adapting them to the extremely variable conditions of the different territories.

The committee included representatives of Afghanistan Burma Ceylon France India Portugal and Thailand After hearing an account of the position in the various countries and examining the problems facing the

FIG 2 WHO REGIONAL COMMITTEE FOR SOUTH EAST ASIA SECOND SESSION I



Seated at table from left to right Dr Tha Mya (Burma) Mrs A Ing San (Burma) Dr Faqir Mohamed (Afghanistan) Dr K C K E Raja (India) Dr S F Chellappah (WHO) C H Moore (WHO) Dr Martha M Eliot (Assistant Director General WHO) Sir Arcot L Mudallier (India)

FIG. 7. WHO REGIONAL COMMITTEE FOR SOUTH EAST ASIA SECOND SESSION. II



Seated round table beginning f om left. Dr S Daengs ang (The land). p écis writer. Rajkumura Amril Kaur (Indis). Dr K. C K E Raja (Ind. a). Dr W. G W. ckremesinghe (Ceylon). a scc etary. Dr Tha Mya (Bu ma). Mrs. Aung. San (Burma). Dr Faqir Mohamed (Alphanistan). S. W. R. D. Banda analsk (Ceylon). Chalman. Dr C. Mani (Reglonal Director).

governments the committee took certain decisions with a view to solving these problems taking care to ensure that the countries of the region would derive maximum benefit from the aid offered by WHO. The committee convinced of the need for close co operation—within the frame work of WHO—between the member countries adopted joint solutions particularly with respect to the teaching and training of personnel. It drew up recommendations inspired by this spirit of co operation the most important of which are summarized below

Joint FAO/WHO Project

The committee welcomed with great satisfaction the joint FAO/WHO project for controlling disease and increasing food production. This project is clearly of special interest to the countries of South East Asia where the effects of morbidity on agricultural production are acutely felt. The committee expressed the wish that several demonstration areas be established in South East Asia particularly in those countries which would be prepared to meet part of the expenditure involved. It invited governments to submit to the Regional Director proposals concerning areas suitable for these operations.

Malaria

During 1950 and 1951 a great effort should be made to intensify malaria control including in particular, the introduction and extension of the use of insecticides with a residual action

In order to develop teaching fredities an essential factor in carrying out such a programme the committee proposed that courses in malariology, similar to those contemplated at Singapore, be organized at the Malaria Institute of India New Delhi, and at the Malaria Field Training Centre, Ceylon These courses would be open to a itionals of all countries in the region. It is very important that the countries concerned have at their

FIG 4 WHO REGIONAL COMMITTEE FOR SOUTH EAST ASIA SECOND SESSION III



From left to right Mrs Aung San Pandit Jawaharjal Nehru Dr Martha M Ellot Rajkumari Amrit Kaur S W R D Bandaranaike

disposal the insecticides essential for the control of insect transmitted diseases and that they receive the necessary equipment The committee therefore recommended to Member States that they implement without delay the resolution of the Economic and Social Council of the United Nations and facilitate the supply of such material by decreasing cus toms tariffs assuing export and amport licences, etc.

Tuberculosis

The committee recommended that the countries of the region intensify considerably the BCG programmes at present being carried out 4 and undertake vaccination in places where it has not yet been started. It requested the help of WHO in setting up a centre for the teaching and training of tuberculosis workers

Venereal Diseases

The WHO demonstration term at present working in the Himachal Pradesh area ⁸ in the foothills of the Himalayas, could serve as a temporary instruction centre. The committee recommended the governments of the

Ch on H II Illih O g 1949 2 . 9 230 1949 3 24

region to send their venereal disease specialists to study control methods and laboratory techniques at the headquarters of the team in Simla

Pestilential Diseases

The committee welcomed the WHO projects for the demonstration of plague-control methods in India With regard to smallpox it recommended the countries of the region to make vaccination and re vaccination com pulsory and to ensure that the lymph used in vaccination is of good quality

Other Questions

The presence of a specialist regional adviser will lead to considerable improvements in the field of maternal and child health. Moreover recommendations made concerning problems of nutrition sanitation and housing bring new hope to the peoples of the region.

The question of medical supplies was also examined by the committee. In view of the tasks awaiting them and the considerable extension of health programmes it is certainly to the interest of the countries of the region to endeavour to make themselves partially self-sufficient by developing within their own territory the production of substances used in disease control such as insectedes antibiotics vaccines calencials synthetic

drugs etc. Before any decisions are taken on this subject an inquiry should be conducted throughout the region Consequently WHO was requested to send a small group of ex perts to survey the needs of the individual coun tries and their resources in raw materials tech nical personnel and institutions capable of assist ing in the production of medical supplies Finally the group of experts should ascertain to what extent

FIG 5 PATIALA HOUSE NEW DELHI HEADQUARTERS OF THE WHO REGIONAL OFFICE FOR SOUTH EAST ASIA



Part of this building has been placed at the disposal of WHO by the Lidia. Go ernment

the governments would be willing to make a joint effort. Priority should be given to the production of insecticides sulfonamides penicillin streptomycin and antimalizated drugs.

DELEGATES AND OBSERVERS AT THE CONFERENCL

Dr Fagir Mohamed AFGHANISTAN

Mrs Aung San Dr Tha Mya RURMA

S W R D Bandarannike (Chairman) Dr W G CLYLON

Wickremesingho

C H Belle Médeein Colonel Bigot FRANCE

Rajkumarı Amrit Kaur Dr K C K E Raja Dr P V Benjamin Dr O H Koenigsburger Dr C V Ram INDIA

chandani Lieutenant Colonel J Singh

Dr F J C Cambournac Dr J M P de Figueiredo PORTUGAL

Dr S Daengsvang (Lice Chairman)

THAILAND B Leitgeber UNITED NATIONS

P V Acharya FAO

K E Mathew II.O Dr H C Yan UNESCO T G Davies UNICEE

Dr Martha M Eliot F Horine C H Moore WHO (Geneva)

INDIAN RED CROSS SOCIETY S B B Singh

The French and Portuguese delegates represented French India and Portuguese India respectively territories for the conduct of whose international relations they are responsible

ENVIRONMENTAL SANITATION FOUNDATION OF PUBLIC HEALTH

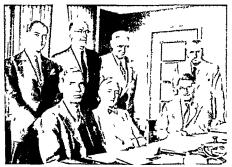
First Session of the Expert Committee on Environmental Sanitation

More than seventy years also Dr M von Pettenkofer showed how in the city of Munich alone bid hygienic conditions and the resulting high death rate caused the loss of 3 400 000 working days each year. Thanks to von Pettenkofer's efforts to improve sinitary conditions. Munich at that time scarcely more than a small town was able to save 25 million floring over a period of twenty five years 1

Although in most countries sanitary conditions have considerably improved during the last fifty years, public health officers still have a tremendous task to perform Pollution of drinking water and inadequate disposal of wastes result in intestinal diseases such as typhoid the dysen teries cholera and the helminth diseases. Contaminated foods such as milk sprend brucellosis and certain forms of tuberculosis. The presence of insect vectors particularly flies in overcrowded dwellings generally

From S gerist II E Introduction to Pettenkofer M von (1941) The value of health to a city Baltimore

IG & EXPERT COMMITTEE ON ENVIRONMENTAL SANITATION FIRST SESSION



Sta ding flom left to right Professor R De León Professor G Macdonald S Pincus (WHO) Professor V Puntoni seated from left to right P ofessor K Sub ahmanyan Professo A Wolman (Chairman) Professor M Pet ik

maintains foci of trachoma and ophthalmia. Rats and fleas transmit plague lee are vectors of typhus. In other words sanitary conditions are largely responsible for the spread of infectious diseases and measures for improvement of sanitation must form an integral part of any programme for their control.

For many years the physician and the drugs which he prescribed were considered the only effective means of combating disease. Such a conception of medicine is today out of date. The scope has been widened to include various aspects of preventive medicine of which environmental hygiene is one of the essential factors. This development was stressed by IA Stampar President of the First World Health Assembly when he stated that one of the tasks of WHO was to contribute to the development of a new type of physician and specialized health worker the type who will devote his services to those with impaired health at the same time realizing that this is only part of the duties and work of the modern public health doctor.

In the future the work of the physician will be completed and assisted to an increasing degree by that of specialists such as nurses social workers and sanitary engineers. These professions, whose role has for a long time been underestimated have assumed and will assume, growing importance. they demand of those who devote themselves to them an increasingly high degree of technical training

The importance ascribed to environmental sanitation is made evident by the large scale programme which the governments of various countries have undertaken with the assistance of organizations such as the United Nations International Children's Emergency Fund (UNICET), WHO, and the Rockefeller Foundation, and by the establishment of a WHO Expert Committee on Environmental Sanitation The task of this committee is to assist WHO in advising governments-particularly those who have to combit the great epidemic diseases-as to the most effective ways and means of improving sanitary conditions, it has also to suggest measures whereby interested countries may be assisted in training specialized tech nical personnel

Role of Sanitary Engineering

During its first session held in Geneva from 12 to 17 September 1949,3 this committee examined among other problems the place which environ mental sanitation should occupy in the health organization and programmes of the various countries 4. It particularly stressed the necessity for strengthening governmental organizations in this field by placing the sanitary engineering services on a sufficiently high level within the administrative hierarchy for them to have some influence on the conduct of operations. These services would be responsible for initiating and expanding sanitary works. In many countries they are at present split up into several departments (public works housing industry etc.), this lack of centrali zation weakens them and diminishes their authority. In the committee's opinion the key positions should be held by specialized sanitary engineers capable by virtue of their training of making clear the vital necessity of

The following took part in this session

Members Professor G Medonal D certor Ros Institute of Tropi al 135 cm. Control Rosenson Venezuela Professor G Medonal D cettor Ros Institute of Tropi al 135 cm. London School of 135 cm. and Tropical Med one London United Mingdom Control Rosenson Rosenso Rosenson Rosenson Rosenson Rosenson Rosenson Rosenson Rosenson

⁽Rapportes)

⁽Rapporter)

Frofessor V Puntoni Professor of Hygiene University of Rome Italy

Frofessor X Subrahmanyan Professor of Sanut ry Eng neering All Ind a Institute of Hygiene and

Public Health Cal ital Ind a Irle Cal issue;

Frofe nor A Wolman Professor of Sanutary Engineering Johns Hopkina University Baldimore Md USA (Chil ma)

Obser e De R. P. Burden. San tary Engineer. Paris Office. International Health Division. Rockefeller Founda.

tion Paris France Sec eta y

S P neu Chief Environmental San tat on Section WHO

^{*}The report on the first zet ion of the E pert Committee on En ironmental Sanitation will be published after approv 1 by the Execut e Board in the 18 o ld Health D gant attor. To h ical Rep. 1 Series

assigning environmental sanitation its proper place within the national programmes for disease control

Great progress has already been made in several countries as a result of appointing sanitary engineers to key posts in organizations dealing with environmental sanitation. But in numerous other countries including the most developed there is a shortage of professionally qualified technicians for putting environmental sanitation programmes into action and supervising their execution. Professional training in environmental sanitation is therefore one of the subjects upon which in the opinion of the committee WHO should concentrate its efforts and lend its aid to govern ments. This aid might take various forms including.

(a) granting of fellowships for study and for refresher courses to teachers of sanitary engineering and to sanitary engineers working in national public health services

(b) technical advice in the establishment or extension of the teaching of sanitary engineering

(c) provision of teaching materials and laboratory equipment to schools or institutes national or regional specializing in training and research in sanitary engineering

Education of the Public

The education of the public can play a considerable part in the improvement of public health—more so than in any other field. It is not merely a question of imparting elementary knowledge to the public but of inducing the whole population to adopt such habits as will eliminate the possibilities of transmitting disease. It is particularly children of school age to whom it is desirable to appeal inculcating in them habits of hygiene as an integral part of good social behaviour. Elementary hygiene should also be taught to personnel engaged in the production handling and distribution of foodstuffs and drinking water as well as to persons such as transport and theatre employees etc. whose work brings them into contact with many people. In education collaboration with UNESCO might be very frutful and the committee noted with satisfaction the liaison that has alteredy been established in this matter between UNESCO and WHO

Environmental Sanitation in WHO Programmes

One of the most effective means of demonstrating to governments and peoples the importance of environmental sanitation is the committee believes the integration of measures for sanitary improvement into WHO programmes. Whether it is a matter of maternal and child health (in Egypt and Texas fly control has already had a marked influence on infant mortality rates) or of controlling malaria cholera or plague it is desirable that demonstration teams in environmental sanitation should work in conjunction with teams combating diseases.

The committee expressed the wish that environmental sanitation should be included in one of the joint FAO/WHO programmes combining discrise control with agricultural development, and that in one of the selected areas a demonstration of the various aspects of sanitary improvement should be carried out.

According to the committee WHO should in future encourage the adoption of standard methods of analysing water milk and the chemicals used in sanitation practice, and develop an international standard technique and language so that information on this subject can be more easily exchanged

INTERNATIONAL MEETING ON NUTRITION

Joint FAO/WHO Expert Committee on Nutrition

At the beginning of the last century Brillat Savarin wrote design it in destince design it in the savarin wrote design it in the savarin strength of a connevion between the health vitality and development of the people and their nutrition is thus not new but it is now more topical than ever Recent scientific advances in agricultural production and in the manufacture of synthetic food factors such as the vitamins as well as the connection discovered between certain diseases and food deficiencies enable a more direct approach to be made now to the problem of nutrition on the international plane.

International organizations have already for many years been trying to improve the food supplies inadequate both in quality and in quantity, with which millions of human beings have to be statisfied. In 1937 after having undertaken various work and investigations in connexion with nutrition the Technical Commission on Nutrition of the League of Nations Health Organization laid down the general principles for the composition of a sound diet calculated to ensure optimum growth and body maintenance. During its 1938 session the Commission added some important conclusions dealing especially with the requirements for attainism inorganic elements fair and proteins and with the milk requirements of infants children and expectant and nursing mothers. A special committee of the Technical Commission which was given the task of studying nutrition in the East in tropical countries and in the colonial territories recommended that certain adjustments should be made in the sphere of agriculture to increase the production of protective foods.

Quoted by Drummond J. C. Prefare to Bacharach. A. L. (1938) Science and n. i. iii. n. Lond. n. p. v. These two quot it. n. are e tracts from the Report on the work of the Health Organisat. n. between June 1938 and April 1938 and on its 1939 programme. wh. has prepared in R. II III. III. III. A. V. 1939. 8. I.

This conception of a fundamental approach to the problem has since then been accepted as the basis of the objectives of the Food and Agri culture Organization of the United Nations (FAO) which is concerned with the production of foodstuffs and their distribution and consumption FAO aids countries to develop the cultivation of the soil according to rational methods and to the special needs of each individual country

For its part the World Health Organization is interested in the problem of nutrition because good nutrition is essential for optimal health. From the international standpoint the diverse aspects of the question are so interwoven that it is impossible to make any rigorous distinction between them Consequently the two organizations intend to tackle them in close collaboration a joint FAO/WHO committee has therefore been set up with the aim of studying questions of common interest

This committee held its first meeting in Geneva from 24 to 28 October 1949 5 Among the items on the agenda were projects for surveys of the nutritional requirements and the nutritional status of the people in different countries for the study of the etiology and prevention of endemic goitre and of certain other deficiency diseases and for research on diseases of nutritional origin which are still imperfectly understood

Surveys of World Nutritional Needs

Surveys of nutritional status calorie requirements and diets in the various parts of the globe as envisaged in the FAO/WHO programmes should make it possible to obtain a general idea of the world position in this connexion. The assessment of nutritional status, for which WHO

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D W R Aykroyd D rect N total D is F. D F W Cl men Chief N total Section, WHO

The report fith J t FAO WHO E pert Committee o N rst will be p bind aft rappro 1 by th Feet we Bad I the World II like Of C thou T At I R port 5

is especially responsible cin be made by the clinical examination of representative individuals by the determination of certain substances in the blood and possibly, by physical and biochemical examination of certain tissues. Methods of analysis and assay have been developed but the results of the various examinations need to be co-ordinated. The committee recommended that nutrition surveys should be carried out on a national scale. In order to complete them, to increase their value, and to facilitate comparison between the data collected in different countries it was suggested that standard questionnaires should be sent to governments.

Deficiency Diseases

The success which has crowned the efforts made in many countries to control diseases due to deficiencies of nutrients is extremely encouraging so that it is possible to contemplate the general application of certain preventive measures. The case of goitre and that of certain avitaminoses are particularly striking

Endemic goitre The incidence of endemic goitre in the world is not known scientific literature contains only fragmentary information on this subject. It is known that this disease, which is not found in districts where iodine is plentiful is widespread in countries which are far from the sea and ser foods as in high villeys in Europe, India, and South America Lack of jodius seems to be an essential factor in this disease.

The most widely used prophylactic method consists in adding iodine to table salt. Potrssium iodide in amounts varying from 1 part in 10,000 to 1 part in 100 000 according to the country, is added to the crude salt during the refining process which transforms it into table salt, the treat ment undergone by the salt makes it possible to fix the iodine in a stable form. The iodization of salt is compulsory in some countries and optional in many others but numerous countries have taken no steps in this connection. In many regions and particularly in underdeveloped countries, the people consume salt in its crude form. It is difficult however, to iodize crude salt in such a way as to produce a stable product. A technical procedure must therefore be found for incorporating iodine into crude salt, before the general application of this prophylactic method is contemplated. Another difficulty arises from the fact that the crude salt used for con sumption is produced by small local undertakings. Thus even if an iodization process for salt were perfected it would not be easy to supervise its application.

In order to collect information on the extent of the endemic gottre problem throughout the world WHO sent a circular letter to the govern ments of Member States, inquiring as to the incidence and distribution of this disease in their countries, the preventive measures in force and

the results obtained by these measures 4 On the basis of the reports received WHO intends to determine the distribution of gottre throughout the world the part played by iodine in its prevention and the measures applied in the different countries and their efficacy

The gottre problem which is of great importance in South America will be included in the agenda of the coming FAO Regional Conference (Rio de Janeiro 1950) in which WHO will actively participate

Deficiency diseases associated with the vitamin B complex Pellagra the study of which was suggested by the First World Health Assembly has been successfully controlled in many European and American coun tries by the administration of niacin (nicotinamide) Since the importance

FIG 7 JOINT FAO/WHO EXPERT COMMITTEE ON NUTRITION FIRST SESSION



Round table from left to right Dr. Lu Gwel Dien (UNESCO) Dr. W. H. Sehrell Professor. G. Be gami a secretary Professor E. F. Fronce Dr. J. M. Lathy (FA.O.) D. W. R. Aykryof (FA.O.) Lord Horder (Chairman), Dr. F. W. Cleme ts. (WHO), a sec elary, Dr. Hazel K. Silebell, g. Dr. J. Salcedo Dr. V. N. Patwa dhan Professor J. P. B. ock. Profesor M. J. L. Div.

and the distribution of this disease in the world are only imperfectly known the committee recommended that WHO should collect all informa toon likely to be of service with a view to possible action at a later stage

One of the members of the committee reported that the addition of synthetic vitamins to rice which was the subject of recent experiments in the Philippines has considerably diminished the incidence of beri beri. Similar trials have been made in the Far East.

Although the enrichment of rice with synthetic vitamins may be very useful in areas where beri beri is widespread it is merely a palliative. The committee stressed the fact that the success of these methods does not dispense with the need for improving diets based on rice.

While the origin of certain deficiency diseases is now well known, the cause of various other complaints which also seem due to nutritional deficiencies is still undefined. The committee paid particular attention to one of these diseases, namely kwashiorkor (also known as malignant malnutrition, syndrome depigmentation oedènic, etc.) This disorder which is encountered in tropical and subtropical area is, is yet a poorly defined syndrome and causes very heavy infant mortality in certain countries. In Africa and Central America, where this condition is widespread, idults who have suffered from the disease during childhood frequently show cirrhotic changes in the liver. The committee felt that WHO should undertake a study of this disease including the investigation of the diets of the population particularly of pregnant women and young children Comparison with the diet of peoples free from the disease would perhaps make it possible to discover the crustive fettor.

The investigation of eye disorders due to fully nutrition, is well as of certain blood dyscrasis (e.g. annemia) which also appear to be of nutritional origin should in the view of the committee, also figure in the future programmes of WHO

Other Matters

Other subjects which will also be studied by FAO are infinit nutrition after wearing—in many areas children after wearing are put on a diet consisting of cereal preparations—the improvement of milk supply and the production of foodstuffs capable of replacing milk and compensating for deficiencies in the diet of children

Close collaboration between FAO and WHO will be maintained not only as regards the surveys and investigations mentioned, but also with respect to general technical and administrative activities such as the allocation of fellowships professional training education of the public, and consultant services to governments

THIRD SESSION OF THE JOINT OIHP/WHO STUDY-GROUP ON CHOLERA

The guiding principle of the important session of the Joint OIHP/WHO Study Group on Cholera held at New Delhi from 15 to 19 November 1949 and a search for the factors responsible for the endemicity of this discusse

Although in the light of present day knowledge and measures the control of cholera epidemics does not present major difficulties the problem

The report on the th d sess on of the Io at OHP/WHO Study Group on Cholera will be published after approv I by the Executive Board in the Hold He like O ga 1 it in Technical Report Seles

FIG & JOINT OINP/WHO STUDY GROUP ON CHOLERA THIRD SESSION



From lett to right facing camera Dr C G Pa dit (Chairman) orécis w ter Dr R Politize (WHO) Professor K Subrahmanyan Sir Aly T Shousha Pasha (WHO Regionat Director to the Eastern Mediteranea) Leutenant Colon M Jafa From letto right boat to camera Dr P M Kaul (WHO) Dr C Man (WHO Regional D recto for So th East As a) M decin Général professor de Colon M A Vaucet Dr M Ga d (OTHP) interpreter

of its endemicity is still full of unknown quantities. Very intensive research has been directed towards this problem so that the study group was able to examine 16 papers which were submitted to it during the session. The prevention of cholera epidemics depends essentially on a thorough know ledge of all the factors in the endemicity of the dis-ase. Specifically if it were possible to eliminate endemic foci as roughly outlined in the light of the data collected the problem of cholera epidemics could also be solved. It is therefore quite evident that this meeting of the study group was of considerable interest.

The bases for these investigations had been laid down during the second session of the Joint OHP/WHO Study Group on Cholera and certain factors governing endemicity had been suggested as subjects for study.*

Visits to Endemic Areas

The third session of the study group was held at New Delhi to enable the participants to visit several areas of interest from the point of view of the problems which were subsequently to be tackled. In this way the participants were able to meet the research team of the Indian Research Fund Association in the Tanjore district. They were also able to study on the spot water supply, irrigation systems and the habits of the nonulation. and to visit patients suffering from cholera. The study group was impressed by the spirit of co operation of the people and by their desire to improve their present state. They also paid a visit to the field laboratory set up at Trichinopoly where bacteriological research and water analyses are carried out under good conditions. It is at this laboratory that the research team of the Indian Research Fund Association has established its headquarters for study and analysis of data

Cholera Endemicity Problems

Members of the Cholera Advisory Committee of the Indian Research Fund Association and other workers, as well as representatives from the public health administrations of the provinces where cholera is prevalent, were also present at the New Delhi meeting 3

The reports presented dealt with statistical and epidemiological studies and with several important bacteriological investigations. The work of the study group made some new contributions and, if this research con tinues, the link between epidemic outbreaks may be established Work is at present being conducted under the auspices of the Indian Research Fund Association, with a grant in aid from the Office International d Hygiene Publique Thus with the help of a centrally located field laboratory at Trichinopoly epidemiological investigations are in progress in a selected endemic area of the Cauvery delta, which includes 30 villages and 60,000 inhabitants

Among the papers presented we may mention the viability of the vibrio in foodstuffs fruit and flies its persistence in carriers and conva the effect of sulfonamides on vibrio excretion in carriers and convalescents the Bandi test etc Several important conclusions were reached the results however will have to be confirmed by subsequent work

The following took part in this meeting

Members

Leutenant-Colonel M. J. far. D. rector General of Health. Karachi. Pakutan. Dr. C. G. Pandi. Secretary. Indian Research. F. nd. An echtion. New Delbi. India. (Chai man). Médecin Général Inspecteur. M. A. Vasoci. D. recteur. du. Serv. es. de Santé colon al. Ministère de la France. d. Outst. Met. Pans. France.

OTHP

Dr M Gaud Directeur de l'Office International d'Hygiène Publ que Paris France

Dr P M Kaul Medical Officer Enid miological Studies Section

Also p esent

Police Mann Director WHO Resignal Office for South Leaf & 18. New Delhi India
De R Polit or Land mologapit WHO Resignal Office for So th Leaf As a N w Delhi India
De R Polit or Land mologapit WHO Resignal Office for Land molector Leaf New Leaf South Medican Common Act and Carlo Six My T Showsha Pasha D ector WHO Resignal Office for Lanton Medicar nean Actandrias
Expt (by special invitation)
Professor N S Drahmany in Professor of San 1879 Engine eng All India Institute of Hyg ene and
Public Health Call tas India (pecial con Itant to the st (by 50 pt)

The laboratory diagnosis of the vibrio in acute cholera cases as well as in carriers or convalescents was the subject of an important paper submitted by M L Ahuja K V Krishnan S R Pandit and K V Ven katraman This work will probably be published shortly in the Bulletin of the World Health Organization

The authors describe the most satisfactory laboratory method for detecting vibrios in stools. In cases of acute cholera it is preferable to seed the nutrient medium directly. On the other hand for the detection

FIG 9 JOINT CHP/WHO STUDY GROUP ON CHOLERA THIRD SESSION



Round table from left to right Dr M Gaud (OIHP) Médecin Général I specteur M A Vaucel D C Mant (WHO Regional Di ector for South East Asia) Dr P M Kaul (WHO) D C G Pandit (Chalirman) Prefcis witer Dr R Polititar (WHO) Professor K Sub ahma yan Si. Aly T Shousha Pasha (WHO Regional Director for the Easte n Mediter anean) Lieutenant Colonel M Jaler

of vibrios in the stools of convalescents or carriers enrichment methods must be employed. For this purpose the authors recommend Read a modification of Wilson and Blair s medium. If the number of samples to be examined is too high it is preferable to examine pools of 10 samples at a time and in the event of a positive result to determine the particular sample responsible at a later stage.

Arishnan and Dutta also presented an important paper on the retrospective diagnosis of cholera by means of agglutination tests. This work opens up fresh prospects and will make it possible not only to diagnose cholera retrospectively but also perhaps to investigate the endemicity of an area and to assess the results of inoculation. A polystecharide with antigenic properties has been isolated from the vibrio by Ahuja. The potency of the viccine may possibly be improved by making use of this knowledge.

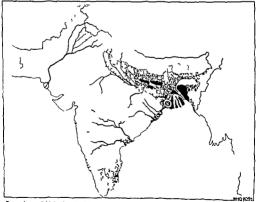
Krishnan also submitted a paper reviewing the present knowledge of the cholera vibrio town. Toxicity tests are likely to give us a better understanding of cholera patholemicity and immunology. A preliminary study by W Doorenbos and G N Cossery Bey, on the reversion of the R type to the S type in the presence of antiphage serum was presented to the study group by Sir Aly Shousha. Pasha. This work is still in progress and needs to be definitely established and confirmed.

Endemic Areas in India

Dr S Switoop Professor of Statistics All India Institute of Hygiene and Public Health Calcutta has studied cholera endemic areas in India from three different points of view

First of all he took as basis the mortality due to cholera in each cholera infected district and determined the 10 years within the last 45 years in

FIG 10 CHOLERA ENDEMICITY IN INDIA IN RELATION TO THE RIVER SYSTEM



Q — Area of highest endemicity The degree of endemicity has been based on the average cholera incidence in the 10 years of lowest cholera mortality during the period 1901 1945

which the average mortality rate was at a minimum. In this way the areas of high moderate low or doubtful endemnety were ascertained as well as the areas free from cholera. The distribution of these areas and the river system are shown in fig. 1. Although it does not give the exact delimitation of the endemic areas. this figure makes it possible to evclude a large number of districts in which endemic cholera is not expected to be found.

Continuity of infection is a more important criterion than the actual number of cholera cases in determining the endemic areas Basing his work on this principle the author noted the monthly cholera mortality over a 30-year period for each district as well as the number of times when each district was free from cholera during one two three or several months. This procedure gives an approximate idea of the cholera endemicity

A third method of determining the endemic areas consists in proceeding in the same way but making use of weekly periods. Such statistics are available for the last 10 years. In this way a final grouping of endemic districts was found possible which showed that the endemic areas are located in the alluvial low lying and most humid areas where the population is most dense.

Factors Governing the Endemicity of Cholera in India

The following factors seem to govern the endemicity of cholera in India conditions connected with the deltas high population density high humidity abundance of water not subject to any control and salinity of water with a high organic content. However in some areas where similar conditions exist cholera is not endemic. For this reason the study group recommended that data from different areas be compared in order to explain this phenomenon.

No relationship has been found to exist between cholera endemicity and the holding of fairs and festivals though it is clear that such gatherings and the collective movements of peoples are factors favouring the spread of cholera.

WHO Programme for 1950

The study group noted with satisfaction the decision of the Second World Health Assembly to take the offensive and attempt readication in well defined endemic areas rather than to keep a continuous and sterile watch in many provinces and countries against cholera invasion. 4 The study group therefore recommends the formation of two demonstration teams one for the deltaic region of Madras the other for an area in the East Bengal Province of Pakistan. The co-operation of the WHO Environmental Santiation Section will be indispensable in view of the

intimate relationship between permanent control of cholera and the neces sity of providing pure water supplies and of sanitary disposal of excreta

The study group specially recommends

- (1) provision by effective and economical methods, of pure water, in sufficient quantity to obviate the use of uncontrolled water supplies
 - (2) provision of adequate toilet facilities for each family.
- (3) assistance of the WHO Health Education of the Public Section in obtaining the co operation of the local population in utilization of these facilities

BILHARZIASIS

At its first meeting held in Cairo between 24 and 29 October 1949,1 the Joint OIHP/WHO Study Group on African Schistosomiasis (Bilbar ziasis) stressed that in many countries in which schistosomiasis is endemic, evidence already available indicates that it is a public health problem second only to malaria

The danger resulting from the introduction of irrigation schemes or from the extension of irrigation in certain areas was emphasized by the study group. It is the subject of very important recommendations concerning the safeguards both administrative and technical that are required. No irrigation scheme should be undertaken unless it has first been approved by the public health authorities

In view of the importance of this problem, the study group asked WHO to bring the matter to the attention of the United Nations of the Food and Agriculture Organization and also of those governments that contemplate extending or introducing irrigation systems with a view to increasing food production

The following took part in this session Members

Dr M A Azim Bey Director General R ral Health Department Ministry of Public Health Cairo

DI M. A Attim Bey Director General R. 741 Health Department Ministry of Public Health Lairo Egypt (Chris Thrector of Prevents e Serv es Department of Health Sal sbury Southern Rhodesia Dr J Guid D'rector de Institut d'Ilygène du Marce Rabatt Morocco Dr W. Il Wighth See net Director Chief Division of Tropi al Diseases National Institutes of Health (US Public Health Service) Berhedad Md USA Secreta Int

Dr M Gaud D recteur de l'Office International d'Hygène Publique Paris France

Dr Y M B raud Director D vision of Ep demiology WHO
Sir Aly T Shousha Pasha D rector WHO Regional Office f r the Eastern Med terranean Alexandria

Fgypt
Dr M M S dky M dical Offcer Ep demolog cal Stud es Section WHO

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Present Extent of the Problem of Bilharriasis

Although the distribution of bilharzassi is not yet known with cer ainty it is known that endemic and epidemic foci of this disease are wide spread throughout the continents of Africa. Asia and America and that about 150 million individuals are affected. The recent meeting in Cairo thus has special importance.

After reviewing the present information regarding the prophylaxis of bilharziasis the study group devoted particular attention to prevent ing the spread of this disease to new areas. It is a fact that the methods of combating bilharziasis have in practice proved insufficient to check epidemics. In Egypt in spite of great efforts made to control the disease in the number of cases is still increasing. The possible spread of bilharziasis in the future must be considered. Indeed bilharziasis may assume catastrophic proportions not only in areas where it is already endemic but also in areas where it does not yet exist or at any rate exists only sporadically. For this to happen it is sufficient that the different factors which cause infection are able to develop and cause an epidemic. Hence the extension or the creation of irrigation systems in areas where bilharziasis is endemic might result in epidemics sufficiently serious to cause losses in capital and human life and to invalidate much effort.

Research Programme

The study group stressed the importance of research on the distribution of bilharziasis according to the species of bilharzia and of snails and has recommended the adoption of uniform methods for this purpose. The knowledge to be obtained by such surveys is necessary to appreciate the social as well as the medical importance of the disease and to enable national and international health authorities to plan and carry out-effective control measures. In medical literature information on this subject is in fact incomplete. Other problems which would repay wider research are the importance of bilharziass as a cause of death of morbidity and of the loss of productive capacity as well as the susceptibility and immunity to in fection with bilharzia. On the other hand in order that a comparison of the results of an investigation may be made and also to enable the value of preven twe and therapeutic measures to be determined it is essential that uniform methods of diagnosis be adopted both for intestinal and vescal bilharziass.

Diagnosis Treatment and Prevention

Regarding the methods of diagnosis of intestinal bilharziasis the study group stated that the smear method gives only a low proportion of positive results while rectal swabbing and precipitation in a conical glass of an emulsion of stools in normal or concentrated saline solution give higher

percentages of posture results. Fullchorn's method i.e., hatching the ovain water and then observing the mirrardial also yields a high proportion of
positive results. Proctoscopy and rectal biopsy ire reserved for doubtful
cases. It is however, necessary to repeat the examinations because the
discharge of the eggs is not constant. With regard to the diagnosis of
cusical or urmary bilharavisis, the specimen of urme should be taken
from the list stage of micturition and the simple should be allowed to
settle in a conical glass for 30 minutes before examination. The examination may be performed either microscopically or microscopically and,
in the litter case will include observing the hatching of the ova. These
uniform methods of diagnosis will enable the results of investigations to
be compared so that the value of the preventive and therapeutic methods
may be determined.

The study group stressed how much it appreciated the work that had been done in Egypt in organizing the campaign against bilbarziasis. This work has not only been conceived and carried out according to the most modern scientific methods but it was in Egypt itself that several of the data were required. Even if thanks to these efforts, the complications of billiarzi isis have decre ised in Egypt, it is nevertheless a fact that it has never been is widespread as it is at present. The chief cause of this state of affairs lies in the system of permanent irrigation which fivours the propagation of the vectors of the disease. The destruction of smalls by chemicals is as yet the best method for controlling bilharziasis since it does not require the active collaboration of the public. Copper sulphate is at present the most widely used molluscicide it should however, only be used according to specified methods and techniques. New research on molluscicides and on treatment might bring about an improvement in the present situation. It is known that work is proceeding along these lines and that as a result two new molluscicides namely pentachloro phenol and pentabromophenol have been discovered 3 Research into the harmlessness of these molluscicides for min, as well as into their activity should be carried out before they are generally applied sterilizing the human reservoir of the disease and for the treatment itself effective easily administered drugs of low toxicity must be made available The most preferable means of administration would be orally. It is known that the antimonial drugs administered according to the classical method, ie by a prolonged series of intravenous injections cause such inconve nience that many patients abandon the treatment before it is completed

Recommendations of the Study Group

It stands to reason that without education of the public no measure will be really effective. Educational propaganda should begin at school

Education must aim at changing the habits and customs which foster infection. It is therefore especially necessary to point out the factors causing pollution of streams

The need for trained personnel to carry out bilharzassis surveys and to conduct the campaign against this disease will become increasingly urgent. It is therefore recommended that WHO should grant fellowships for the training of specialists and if necessary should organize courses on bilharzasis in specialized centres.

As regards the extension or creation of irrigation systems the study group formulated clear recommendations of an administrative and technical nature.

Approval of the plans by the public health authorities should be a preciousite for any kind of new irrigation system and for the financing of such work out of public funds

Every irrigation area should be provided with a medical and sanitary organization capable of examining and treating if need be the population of such an area. Villages should be set up as far as possible from streams and canals and should be provided with drinking water and privies in accordance with hygenic requirements. It is known that it is possible to remove cercariae from water either by storage in reservoirs protected from snails or by disinfection with chlorine in a concentration of 1 part per million. This latter method enables the cercariae to be destroyed within 30 minutes.

The study group urged that the priority of Bilharz as describer of the causative parasite of schistosomiasis should be recognized and that accordingly the name of Bilhar_ia be retained for its genus and the name bilharzasis for the disease WHO will have to take the appropriate steps with the Nomenclature Committee of the International Zoological Congress and with the WHO Expert Committee on Health Statistics as regards respectively the names of the parasite and of the disease

PUBLIC HEALTH IN THE TRUST AND NON-SELF-GOVERNING TERRITORIES

In accepting as a sacred trust ¹ the responsibility of ensuring the political economic social and educational advancement of the 200 000 000 inhabitants of the non-self governing territories the governments administering these territories recognize the necessity of concerning themselves with health matters a prime factor in social progress. These

percentages of positive results. Fulleborn's method i.e. hatching the ovin water and then observing the miracidar also yields a high proportion of positive results. Proctoscopy and rectal biopsy are reserved for doubtful cases. It is however necessary to repert the examinations because the discharge of the eggs is not constant. With regard to the diagnosis of visical or urinary billiarzaisis the specimen of urine should be taken from the last stage of micturation and the sample should be allowed to settle in a conical glass for 30 minutes before examination. The examination may be performed either microscopically or macroscopically and in the latter case will include observing the hatching of the ova. These uniform methods of diagnosis will enable the results of investigations to be compared so that the value of the preventive and therapeutic methods may be determined.

The study group stressed how much it appreciated the work that had been done in Egypt in organizing the emprign against billitziasis. This work has not only been conceived and carried out according to the most modern scientific methods but it was in Egypt itself that several of the data were acquired. Even if thanks to these efforts, the complications of billiarzi isis have decreased in Fgypt it is nevertheless a fact that it has never been is widespread as it is at present. The chief cause of this state of affurs lies in the system of permanent irrigation which fivours the propagation of the vectors of the disease. The destruction of smalls by chemicals is as yet the best method for controlling bilharziasis since it does not require the active collaboration of the public. Copper sulphate is at present the most widely used molluscicide it should however only be used according to specified methods and techniques. New research on molluscicides and on treatment might bring about an improvement in the present situation. It is known that work is proceeding along these lines and that is a result two new molluscicides namely pentachloro phenol and pent ibromophenol have been discovered. Research into the harmlessness of these molluscicides for man as well as into their activity should be carried out before they are generally applied. For sterilizing the human reservoir of the disease and for the treatment itself effective easily administered drugs of low toxicity must be made available The most preferable means of administration would be orally. It is known that the antimonial drugs administered according to the classical method, ie by a prolonged series of intravenous injections cause such inconve nience that many patients abandon the treatment before it is completed

Recommendations of the Study-Group

It stands to reason that without education of the public no measure will be really effective. Educational propaganda should begin at school

^{*} Nolan M O & B rry E G (1949) Publ Hith Rep Bah 64 94

state as determined from epidemic or end-mic diseases and from nutri tional deficiency diseases and finally the causes of death. The Ouestion naire also contains requests for information on the activity of the health services the protection of the health of workmen and the measures taken to control malaria and other endemic diseases tuberculosis leprosy venereal diseases etc. Questions regarding sanitation treat particularly with the disposal of waste matters the supply of drinking water and the inspection of foodstuffs. A final group of questions concerns the academic qualifications necessary for the practice of medicine and the institutes of higher education where the inhabitants of the country may acquire a diploma in medicine dentistry pharmacy or sanitation

Items of a similar nature are also found in the Standard Form for which the panel of experts proposed revisions analogous to those suggested

for the Questionnaire

WHO Publications

World Health Organization Technical Report Series

Beginning in 1950 reports of meetings of the expert committees and other technical advisory bodies convened by or held under the auspices of the World Health Organiza tion will be published as a new series and not as heretofore in the Official Records of the World Health Organi, ation 1

- Now available in this series are
- 1 Expert Committee on the Unification of Pharmacopocias report on the fourth session
- 2 Expert Committee on Biological Standardization report on the third session 3 Expert Committee on Biological Standardization report of the Subcommittee on Fat Soluble Vitamins
 - In press are the following
- 4 Expert Committee on Insecticides report on the first session
- 5 Expert Committee on Health Statistics report on the first session 6 Active immunization against common communicable diseases of childhood

International Digest of Health Legislation

Vol 1 No 2 of the International Disest of Health Legislation has now been published in English and in French. The Direct contains reprints and translations of or extracts from the texts of the most important laws and regulations dealing with public health and related subjects sent by governments in fulfilment of their obligations under Article 63 of the Constitution of the World Health Organization

This number of the Digest contains 33 laws from 13 diff rent countries-on subjects as diversified as Deratization of Ships and Control of Antibiotics" Also included is a list of titles of laws nublished in official gazettes or promulgated by governments during 1947

governments send regularly to the Secretary General of the United Nations information on the economic and social conditions including public health, in the territories under their management

These reports on the welfare and progress of the non self governing peoples are of two types. Those dealing with trust territories (British Cameroons British Togoland French Cameroons, French Togoland Nauru, New Guinea Pacific Islands Ruanda Urundi, Tanganyika, Western Samoa) must be submitted annually to the Trusteeship Council of the United Nations. Reports on the 68 non-self governing territories are optional and are examined by a special commission set up by the General Assembly of the United Nations.

To ease the task of the authorities responsible for preparing these reports and to facilitate their analysis and integration by the Secretary General of the United Nations a Questionnaire was drawn up in 1947 for the use of governments administering the trust territories, a Standard Form was devised to serve the same purpose for those concerned with the interests of the non-self governing territories. These two documents con tain a list of headings and indicate the points on which information is required Questions on public health and sanitation are included under the heading Social Conditions It was considered advisable to revise this section in both the Questionnaire and the Standard Form A panel of experts 2 assembled by WHO met in Geneva from 19 to 21 September 1949 for this purpose and proposed various modifications of these two documents which in their new form will not only be more precise and detailed but will also make comparisons of information contained therein easier

In the Questionnaire are headings such as population figures classified by age sex and race and statistics on birth rates, mortality rates, infant mortality and maternal mortality (The maternal mortality rate will be calculated on the basis of the number of deaths per thousand live births due to the causes enumerated under headings 640 689 in the International Statistical Classification of Diseases Injuries and Causes of Death (Other questions concern the organization of the health services and the budget allocated for these services (including the proportion of the total revenue of the territory which it represents) the various hospital facilities (maternity homes treatment centres for treponemioses leper hospitals etc.) the health and nutritional state of the population the morbidity

The following were present at this meeting

Namoria

Professor G Macdonald Director Ross Institute of Trop cal Hyg ene London School of Hyg ene
and Tropical Med ene London United Ningdom
Professor J Rodhain Directure honoraire de Linitiu tid de Médecine tropicale Prin e Léopold Antwerp

Belgium Médecin-Colonel G Saleun Adjoint techn que du D recteur du Service de Santé colonial Ministère de la France d'Outre Mer Paris France

Secreta y

Dr G W M lier Ass tant to D rector Division of Planning WHO



CHRONICLE OF THE WORLD HEALTH ORGANIZATION

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Notes and News

WHO Antimalarial Team Fights Plague Epidemic in India

A WHO intimalaria demonstration team. headed by Mr. P. Bierstein, a sanitary engineer, his assisted in lighting an outbreak of plague, that occurred at Shimoga in the State of Mysone, (India). Plague, which is endemic in this town of 60 000 inhabitants assumed violent epidemic proportions at the end of O tober 1949. The method of control adopted consisted in spraying DDT in suspension, this technique was specially adapted to that it would be effective, against fleas, the vectors of the disease. Mr. Bierstein and seven of his staff, assisted by locally recruited personnel, were able to start work by

WHO Mental Health Consultant in the Philippines

The Philippine Republic has been the first country to request the aid of WHO for assistance in establishing a modern organization to deal with the mental health problems throughout its territory.

Dr E E krapf of Buenos Ains WHO expert consultant left Geneva on 12 Novem ber 1949 for a two to three months mission in the Philippines. He is to meet local psychiatrists who will assist him in surveying the country's resources and needs and will stay first of all in Manila. Dr krapf will later submit a mental health programme to the Philippine Government covering both the preventive and therapeutic aspects of the problem.

Dr Krapf is Associate Professor of Psychietry at the University of Buenos Aires a member of the Evecture, Board of the World Federation for Mental Health and is the author of more than 60 publications

Bulgaria Decides to Withdraw from WHO

In a letter dated 29 November 1949 addressed to Dr Brock Chisholm Director General of WHO and received in Geneva on 6 December the Bulgarian Minister for Foreign Affairs communicated his Government's decision to withdraw from the World Health Organization

In his letter the Bulgarian Minister for Forugh Affairs recalled that during the Second World Health Assembly held in Rome in June 1949. Bulgaria was among those countries which had criticated the methods adopted and the results obtained by WHO. He added that the activities of the Organization and the practical results obtained are completely insufficient. Jobec all in the domain of mutual assistance in the international health field whilst the methods and policies adopted are adjudged inadequate in relation to the tasks entrusted to the Organization at its inception. The Memb r States of WHO were informed at once of this decision by a circular letter.

Bulgaria is the fourth country that has declared its intention of withdrawing from the Organization for in February 1949 the USSR Byelorussia and the Ukraine let it be known that they no longer considered themselves Memb is of WHO?

Sixty eight States Members of WHO

Bolivia has recently ratified the Constitution of WHO thus bringing the total number of Member States of the Organization to 68. A list of countries which are now members of WHO (listed according to the dates of ratification) may be found in Chron. World Hills Org. 1949. 3. 298.

See Ch on 11 Id Hith O g 1949 3 135 Ch on 11 11 Hith O g 1949 3 56

NEW DEVELOPMENTS IN VENEREAL-DISEASE CONTROL

Third Session of the Expert Committee on Venereal Infections

Technical considerations were the principal concern of the WHO Expert Committee on Veneral Infections when it met for its third session 1 held in Washington from 10 to 20 October 1949 The committee discussed control techniques antibiotic therapy in syphilis and other trepone matoses serological and laboratory aspects of venereal infections and the report of the WHO Syphilis Study Commission to the USA

Treponematoses

Although major effort in WHO's venereal disease programme is to be concentrated on early infectious syphilis and prenatal and infantile syphilis several developments have made imperative a broader consideration of the entire group of treponematoses. Of these developments most important is the evidence that the various treponematoses-syphilis yaws pinta and bejel-respond to penicillin treatment. This seems to substantiate the hypothesis of Hudson that the treponemal diseases

The fllowing t k p rt i this session

M mb s Dr W E. Coutts Pr fetso of V ereology Chief Dep riment of Social Hyg ne P blic Health Adminis-

t il S t g Chd

Dr R D gon Profes ur sgriegh à la Fac lie de Médoc ne d Parus France
D S H II ritt m P tofes r of Dermato- yphilology Un: n; y of Stockh m Swed
Dr E H H man. Med call D eet r Associ uon for th Combati g of V n ee 1 Diacates Rott rd m

Dr.E. H. II man. Med cal. Det f. AASOG 1000 for to Commons. Proc. Mon. 15, 100 for the Mon. 1

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DEP V Marcus en Physicia la charge Venc i Disease Ci ic Komm nebo pial i Copenh gen,
Denn k Chairma WHO Syph! hi dy Comm i n ti th U i di States
DrE. W Thomas Professo of Clin all Mid C N WY k U i n ty Colleg I Medicine Director
R pd Tru in L Cetr B ble Hospii N w Yo k Cty N Y USA

Obse w I Dr G E.S. m. mc V nere ID sease Co. it. F. American S. m. t. P. F. Web., gion, D.C. USA Dr P.S. no. L. C. f. Veneral D sease D. m. populment. III. in C. a., N. bezult Dr W. P. Snow Yend. t. I. nation, I. Uni. aga. i. Venere ID seases. N. w. Yo.k. City. N. Y. USA. A. Wood h. B. I. thaut. I. Labor Office. W. h. g. D.C. USA.

S cretariat

DrT G the Ch. f V n re I Dueases Sect o WHO (Sec tar.)
D A Sp llm n, R gional Ad iser o V nereal Diseases for E rope WHO

D M Grzybowski, Professor f Derm tology Directo Ci nic of Dermat I gy nd Syphilology Uni versity of W raw P I d was n bi t E II (1946) T powers tos N w Yo k

RECENT AND FORTHCOMING MEETINGS

conneias fifth session Geneva

session New Delhi

first session Paris

WHO Regional Committee for South East Asia second

Joint OHIP/WHO Study Group on African Rickettsioses

WHO Expert Committee on the Unification of Pharma

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26 September 5 October

26-28 September

26-28 September

	copocias into session Geneva
10 20 October	WHO Expert Committee on Venereal Infections third session Washington D C
12 15 October	WHO Regional Committee for the Eastern Mediterranean second session Geneva
12 20 October	WHO Expert Committee on Venereal Infections Sub- committee on Serology and Laboratory Aspects Washington D C
24 28 October	Joint FAO/WHO Expert Committee on Nutrition Geneva
24 29 October	Joint OIHP/WHO Study Group on African Schistosomiasis first session Cairo
18 19 November	Joint OIHP/WHO Study Group on Cholera third session New Delhi
1 6 December	WHO Yellow Fever Panel first session Geneva
5 14 December	WHO Expert Committee on International Epidemiology and Quarantine second session Geneva
12 14 December	Joint ILO/WHO Committee on the Hygiene of Scafarers first session Geneva
1950	
6-30 January	WHO Executive Board Standing Committee on Administration and Finance Geneva
9 14 January	WHO Expert Committee on Drugs Liable to Produce Addic- tion second session Geneva
16 January 2 February	WHO Executive Board fifth session Geneva
6 11 February	WHO Expert Committee on Professional and Technical Education of Medical and Auxiliary Personnel first session Geneva
20-26 February	WHO Expert Committee on Nursing first session Geneva
February tentatively	Joint ILO/WHO Committee on Industrial Hygiene first session Geneva
February tentatively	WHO Expert Committee on Health Statistics Subcommittee on Cancer Registration
February tentatively	WHO Expert Committee on Health Statistics Subcommittee on the Definition of Sullbirth and Abortion
6 March	WHO Regional Committee for Europe first session Geneva
20 March tentatively	WHO Expert Committee on Health Statistics Subcommittee on Hospital Statistics
11 15 April	Expert Committee on Antibiotics first session Geneva
17 April tentatively	WHO Expert Group Meeting on Prematurity Geneva
20 April tentatively	WHO Expert Committee on Health Statistics second session
20-29 April	WHO Expert Committee on the Unification of Pharmaco poetas sixth session New York
8 May	Third World Health Assembly Geneva

nological relationship between the causative agent of the various trepone matoses in man and animals a distinction which cannot be made with classical serological methods

A third important technical consideration is the recent support given to the identification of bejel as an endemic syphilitic disease. The committee recommended that the bejel project in the Eastern Mediterranean area should get under way early in 1950 5 This project proposed by the Director General of WHO and adopted by the Regional Committee for the Eastern Mediterranean, calls in the first place for a survey to be carried out by a special team of 3 or 4 experts who would explore the epidemio logical clinical and laboratory aspects of bejel. Next would be the selection by this team of a special demonstration area where a disease eradication campaign based on penicillin and modern case finding techniques could be carried out. On the basis of experience gained in the demonstration area it would be possible to proceed with a broad campaign against bejel over a wide area. Concomitant with the control programme would be comparative laboratory studies particularly on the trepenomes of syphilis and bejel It was the opinion of the Expert Committee on Venereal Infec tions that the pilot area for field and laboratory investigations should be established in Iraq as soon as the hot season is over

It is felt that WHO can make a significant contribution to the ultimate definition of the nature of treponenal diseases in man and of their biological and immunological relationships by utilizing the clinical and laboratory material available in field units and national laboratories in areas where treponematorses are prevalent. The disease cradication campaigns against yaws and syphilis in Haiti and against bejel in the Eastern Mediterranean area will be a sten in this direction.

area will be a step in this direction

Two considerations of an administrative nature were brought to the
attention of the Evpert Committee on Venereal Infections

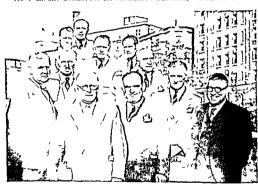
- I The referring of treponematoses other than syphilis to the Expert Committee on Venereal Infections by the Executive Board and the World Health Assembly
- 2 The decision of the Second World Health Assembly to establish in 1950 an Expert Committee on Treponematoses to be composed of 9 members including 3 syphile experts of the present Expert Committee on Venereal Infections 4 The latter recommended that the terms of reference of the new committee be clarified so as to avoid duplication of effort or that WHO consider merging the two committees in 1951. Also recommended was the establishment of appropriate study groups or sub-committees as required.

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including syphilis are caused by closely related organisms but exhibit varying clinical and epidemiological patterns in different parts of the world, possibly because of environmental factors

The success of mass application of penicilin in eradication projects against yaws and syphilis in parts of Africa certain Pacific islands and the USA has encouraged WHO support of the campaign against yaws which is part of the United Nations technical assistance to Haiti. The Expert Committee on Venereal Infections welcomed this project as an

FIG + EXPERT COMMITTEE ON VENEREAL INFECTIONS THIRD SESSION



Front row left to right Dr. E. H. Hermans Dr. R. Depos Dr. G. L. M. McElligott (Rapporteur) Dr. R. V. Rijam (Viec Chairman) Middle row left to right (Chairman) Dr. H. Mapi Dr. S. Hellerstrem Dr. T. Guthe WHO) Dr. W. E. Coutts Back row Left to fight Dr. P. V. Marcussen Dr. A. Spillmann (WHO)

opportunity to demonstrate the effectiveness of control programmes based on penicillin in a large scale campaign in a geographically delimited area with a high prevalence of disease. It recommended that procuine penicillin G in oil with 2% aluminium monostearite be the form of penicillin employed.

A second significant development is the treponemal antibody technique introduced by Nelson 4 which permits study of the biological and immu

A report on the miss on to Hatti will be published in a forthcoming number of the Chronicl See page 4

survey incomplete however and recommended that the study be continued

The committee discussed the use of repository penicilin preparations which have greatly simplified penicilin therapy. A single injection of 300 000 Oxford units of procaine penicilin with 2% alumnium mono stearite can maintain an effective blood level for about 96 hours. Penicilin treatment in dosages of 600 000 to 2 400 000 units has special significance in cases of early infectious syphilis. The committee recommended that sufficient time has not yet passed to evaluate with certitude the ultimate results of this penicilin treatment. However it is remarkable that in observations made during the last two years there do not appear to have occurred any completely acceptable instances of central nervous system relapse in patients who received adequate penicillin therapy in the early stages of infection. This gives hope that the danger of development of syphilis of the central nervous system may pass and that the prolonged post treatment follow up which is presently necessary may be curtailed and a shorter routine adouted.

Recognizing the epidemiological value of penicillin the committee considered that its use on a large scale should be organized as part of public health activities in areas with a high prevalence of treponemal disease. To compare its efficacy with older methods of treatment a group of three members of the committee will report at a subsequent meeting on suitable case material treated with (a) arsenicals and/or bismuth and (b) penicillin preparations

With regard to the Pharmacopoea Internationalis now being prepared by an expert committee of WHO ¹¹ it was suggested that the characteristics of vehicles and water repellent substances used in peniculin preparations be included in the Pharmacopoea Standardization of repository preparations is essential if comparative investigations are to be valid The committee also considered that the following drugs should be included in the Pharmacopoea Internationalis

Arsenoxides

Aureomycin Neoarsphenamine Procaine penicillin G Sodium penicillin G Streptomycin Sulfadiazinum Sulfaguanidinum Sulfathiazolum

Maritime Aspects

The committe made specific recommendations regarding these questions calling attention to the desirability of more countries adhering to the Brussels Agreement pending the establishment of wider interna

See Thoma E. W (1949) B II W 14 Hith Org 2 233 Chron World Hith Org 1949 3 279

Serodiagnosis

Of major importance in any venereal disease activity is to have uniform, effective and practical means of serodiagnosis. At the present time there is little uniformity in the methods used and comparisons of reactions are not always valid. The same method may give different reactions in the same patient because of differences in the material or in the technique employed. There are numerous other complicating factors, chief among which are

- 1 Unreliability of test methods under different climatic conditions Test methods which are reliable in temperate climates often fail under tropical conditions
- 2 Impracticality of some of the most reliable techniques Procedures which are very elaborate and expensive have limited use, particularly in mass screening activities under field conditions
- 3 Limited manufacture of cardiolipin antigens. Technical difficulties and the patent protection for the production of cardiolipin lecithin make the wide use of this means of serodiagnosis very difficult at present?

Although the situation with regard to serodiagnosis is unsatisfactory the committee did not want their observations to be taken as a complete invalidation of present methods. The problem becomes one of trying to improve serodiagnostic methods. According to the committee, "the most promising development in this regard is the introduction of the immobilizing antibody technique (Nelson and Turner). The differentiation between what appear to be true and non specific reagins employing this technique may in future prove of fundamental importance in the serodiagnosis of syphilis

The committee recommended that the Subcommittee on Serology and Laboratory Aspects, the report of which is discussed elsewhere in this issue a proceed with its programme for the establishment of an international antigen reference standard study the possibility of recommending a uniform test procedure to all countries and consider setting up international reference centres for making control sera and antigens available to national laboratories.

Antivenereal Drugs and Therapy

A survey recently made by WHO shows that penicillin consumption is likely to increase progressively in all parts of the world whereas production will probably remain limited for some time to Europe and America. The Expert Committee on Venereal Infections considered this

^{&#}x27; S e page 44 See page 41

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SEROLOGY OF SYPHILIS

The Subcommittee on Serology and Laboratory Aspects (of the Expert Committee on Venereal Diseases) devoted the major part of the discussions at its first session 1 held in Washington from 12 to 20 October 1949 to the question of the International Serological Laboratory Conference which the World Health Organization proposes to convene in 1951 or 1952 Similar conferences took place in 1923 and 1928 at Copenhagen and in 1930 at Montevideo The war prevented the holding of one in Copenhagen in 1939 as had been planned. In 1941 a conference for the Western hemisphere met in Washington. It was of great benefit to the subsequent development of research in the USA and laid the foundation for further standardization work in the serology of syphilis

Need for an International Conference

The need to hold a new laboratory conference is making itself urgently felt. The fact is as was stressed by the subcommittee that present techniques for the serodiagnosis of syphilis lack uniformity different methods of reporting the results of serological tests lead to confusion and render valueless many of the studies published in the past on the serology of syphilis. The present position is such that an individual may be declared syphilitic in one country and free from the disease in another

There are in addition other factors emphasizing the need for an international serodiagnostic laboratory conference. New serological tests have been introduced into practice in the USA and elsewhere during recent years but many countries have not yet tried them out. Some of these tests employ antigen components of a much higher degree of chemical purity than the ones previously used. This is particularly true in the case of antigens containing cardiolipin and purified legithin which have been found more sensitive and more specific than antigens prepared with less

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tional regulations for venerial disease control and to the need for liaison with the Joint ILO/WHO Committee on the Hygiene of Senfarers

Study Commission to USA

The committee expressed the opinion that the interim report of the WHO Syphilis Study Commission to the United States represents a significant contribution which many health administrations, institutions and workers in the venereal disease field will wish to have as a reference document. The results obtained by the Commission will be summarized in a forthcoming issue of the Chronicle. The report itself will be published shortly as World Health Organization. Technical Report Series no. 15.

Developments and Perspectives

In setting forth long and short term objectives for WHO's venereal disease activities the committee emphasized the following points

- 1 Priority should be given to economically underdeveloped areas with a high prevalence of syphilis and/or other trenonematoses
- 2 WHO should continue its advisory and demonstration services and should stimulate training of personnel in the field. The facilities in demonstration areas can be used effectively in training programmes
- 3 Venereal disease control activities should be integrated with other public health programmes particularly those relating to general disease prevention and to maternal and child health. Pregnance care provides an opportunity for case finding not only among mothers but also among other members of families. Mass examinations for military and tuberculosis also aid in finding cases. Antisyphilitic programmes should be combined with measures against other triponematoses where these are prevalent. An effort should be made to initiate activities which can continue to operate after outside assistance is withdrain.
- 4 WHO should continue to assemble and distribute venereal disease literature to health administrations and other institutions concerned. The rapidity of technical developments in the therapeutic and laboratory aspects of venereal disease control make it difficult for research and field workers in all countries to be adequately informed. WHO s services as a clearing house and distribution centre for venereal disease literature have significant value.

The report on this session of the Expert Committee on Venereal Infections will be published as World Health Organization Technical Report Series no 13

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pure extracts The advances made in this field open up the possibility of establishing a durable reference antigen standard. It is clear that developments of the greatest interest are possible in this direction.

Furthermore, a new method has been evolved which arouses great hopes among serologists namely Nelson's treponemal antibody technique. According to this technique the serum of syphilitie rabbits and of persons in whom the disease has proceeded beyond the primary stage immobilizes virulent. Treponema pallidum and causes it to lose its power of infecting the rabbit. This immobilization which develops only in the presence of complement, appears to be due to a specific antibody which is different from and independent of the reagin detected in ordinary serological tests. As may be imagined. Nelson's technique opens up great possibilities in the immunology of syphilis. Moreover, as pointed out by the subcommittee, it could play an important part in the interpretation of false positive reactions.

Finally there is an important reason in addition to the above technical grounds for organizing this conference on a world scale. Investigations so far made show that in certain areas particularly in the tropics sero positive reactions are extremely frequent furthermore, the frequency varies according to the type of test used in serodiagnosis. It follows that the evaluation of the tests and choice of reactions adapted to the various areas represent a problem which should be tackled on a world scale. Consequently it will be necessary to obtain for the conference sera origin ating in different parts of the world. The subcommittee therefore appealed to all important laboratories to collaborate.

General Plans for the Conference

After unanimously recognizing the need for an international conference on serological techniques the subcommittee took up the practical side of its organization which it discussed in its broad outlines. Various suggestions were examined concerning the date, place number of participants general programme of work etc. In the view of the subcommittee the conference should be convened in a city which is an important medical centre and which has an airport served by one or more world airlines so as to ensure the transport of samples of sera coming from different parts of the world in the minimum time. Laboratories should be chosen so as to offer the best working conditions to the greatest possible number of authors of tests. London Paris or Copenhagen would fulfil these various conditions. The number of methods which would be demonstrated at the conference is estimated to be about 40. They should be selected on a purely technical basis the demonstrations being given by the author of the method or by workers designated by him.

The subcommittee was of the opinion that tests should be run on at least 3 000 sera at the rate of 200 a day and on 250 samples of spinal fluid at the rate of 16 per day

The categories of sera with which the tests would deal would be the following

Normal sera About 1 500 samples taken from individuals not showing any morbid symptoms—but not a serologically pre selected group—coming from at least three geographical areas

Abnormal non syphilitie sera About 500 samples taken from individuals suffering from malaria leprosy herpes genitalis from patients who are febrile owing to disease from pregnant women etc about 300 samples of sera giving false positive reactions and also complying with various definite conditions.

Syphilitic sera About 1 000 samples taken from individuals suffering from primary secondary or tertiary syphilis of whom only a part have received appropriate treatment. The number of recent untreated cases should not be below 100.

Spinal fluid Samples from subjects without syphilitic symptoms and from syphilities in whom the central nervous system has not been affected

National Centres for Serodiagnosis

Other problems dealt with during the session are also indirectly connected with the projected conference particularly co operation between laboratories or national centres in the reciprocal evaluation of performance of tests and the exchange of information

Samples of sera and antigens intended for serodiagnosis have already been exchanged between laboratories in Bulgaria Denmark Ethiopia Finland France Italy and the United Kingdom and the Venereal Disease Research Laboratory of the US Public Health Service which acted as reference center. These exchanges were found to be so fruitful that hey might well be established on a more systematic basis. This system should be extended to national laboratories in all WHO regions. Such exchanges of information between laboratories might also make useful contributions to the methods of conserving sera particularly those which give false positive reactions or present knowledge on this subject is very limited.

The subcommittee suggested that WHO draw the attention of national health administrations to the necessity of establishing in each country a laboratory or national centre for the scrodiagnosis of syphilis to participate in action taken in this field on an international scale

Other Questions

After having examined various questions relating to the projected conference the subcommittee proceeded to deal with several other subjects

In particular it studied the problem of cardiolipin, that of bejel and the other treponematoses, considered from the serological viewpoint and the various problems raised by the technique of mass serological examinations

Cardiolipin

The use of antigens based on eardiolipin leathin had been advocated by the Expert Committee on Veneral Diseases during its second session an an effort to encourage the standardization of serological tests for the diagnosis of syphilis

There are two important obstacles to the general use of cardiolipin the technical difficulties encountered in large scale production of this substance and the fact that its manufacture is protected by a patent. The latter which is held by the New York State Department of Health, was established not for commercial purposes but to ensure the purity of the cardiolipin products. It has been suggested that WHO administer this patent internationally. The subcommittee considered that if the adminis tration of international patents were not within the province of WHO the problem could be approached in another way the possibility of establish ing an international cardiolipin reference standard might be considered in conjunction with the Expert Committee on Biological Standardization should developments in this field indicate this to be advisable degree of purity of cardiolipin is essential to ensure the accuracy of sero logical tests employing antigens contuning cardiolinin and nurified lecithin Consequently the current purity control tests for this substance should be studied by the subcommittee

Bejel syphilis and other treponematoses

Thanks to technical improvements made during the last two years, it is now possible to obtain sufficiently concentrated and pure suspensions of treponemata re without tissular impurities for the study of various serological problems connected with the immunology of syphilis, false positive reactions and the relationships both biological and immuno logical between the various strains of treponemata. The members of the subcommittee had an opportunity, thanks to the courtesy of the Depart ment of Bacteriology Johns Hopkins School of Hygiene and Public Health Baltimore to become acquainted with research on treponemal antibodies and particularly with the new treponemal antibody technique.

Several interesting points were brought to light by the comparative study of the different techniques

The titre of the immobilizing antibody (Nelson's antibody) is generally high in sphilis at times it is distinctly at variance with the reagin titres obtained by the lipoid antigen method. After specific treatment, the Nelson

antibody persists longer than the reagin. Finally, there is the particularly striking fact that the Nelson test has been consistently negative in all cases of undeniably false positive reactions. Furthermore the Nelson technique has made it possible to differentiate strains of T nellidum and T pertenue.

These results promise developments of the greatest interest. On the one hand as pointed out by the subcommittee the treponemal antibody technique enables a different approach to be made to the study of false positive reactions and perhaps to elucidate their nature. On the other hand it may make it possible to study the various strains of treponemata with reference to their biological and immunological inter relationships

The programme for the control of bejel will enable interesting experiments in this field to be made in the near future. This WHO project for a campaign against bejel in the Eastern Mediterranean region where this disease represents an important public health problem met with the approval of the subcommittee. From the serological viewpoint various investigations could be undertaken in which the new techniques would play a part. The results obtained would increase present knowledge of bejel and throw light on the problem of the other treponematoses. These studies would be concerned with the following points.

- (a) serological relationship between bejel and syphilis
- (b) nature and extent of bejel
- (c) experimental infection of the rabbit with the bejel treponema
- (d) immunity and cross immunity in experimental treponematoses (syphilis pinta yaws bejel)

Mass serological examinations

The general application of mass serological examinations has shown the acute nature of certain serological problems such as false reactions—both positive and negative—the drawbacks attached to the use of a single test for diagnosis etc. To these technical questions are added problems of a practical nature e.g. pressure of work in laboratories which have to carry out thousands of flocculation or complement fixation tests daily the inadequate equipment of laboratories in underdeveloped areas etc.

The subcommittee noted various practical experiences particularly the satisfactory results obtained by the WHO venereal disease demonstration team at Simla in Northern India 4 with a modified Meinicke test used in conjunction with a cardolipin test

On the basis of this preliminary information the subcommittee recommended that techniques suitable for mass examinations be studied and that the results and the statistical data collected by the demonstration teams be assembled and submitted to the subcommittee at its next session

ANOTHER STAGE IN PREPARATION OF INTERNATIONAL SANITARY REGULATIONS

Second Session of the Expert Committee on International Epidemiology and Quarantine

The new international sanitary regulations are intended to standardize and replace the existing international conventions particularly those of 1926, 1933 and 1938, which were drawn up by delegates at the Office International d Hygiene Publique (OIHP), and were modified in 1944 hy UNRRA 1

Under Article 21 (a) of its Constitution, WHO is responsible for carry ing out this task, which when accomplished will provide a means for ending the confusion resulting from the adherence of various countries to conflicting sanitary conventions. The need for revising the old regula tions is particularly urgent because certain quarantine restrictions are of doubtful value and hinder international communications. Moreover, certain health administrations have a tendency to demand information, for example vaccination certificates the value of which is now questioned

The basic principles of the new international sanitary regulations were laid down by the Expert Committee on International Epidemiology and Quarantine in November 1948 2 The preamble and the commentary on the basic principles were written by Dr Dujarrie de la Riviere 3 The final text with the amendments suggested by the expert committee was approved by the Second World Health Assembly 4

Since then considerable progress has been made. The Expert Committee on International Epidemiology and Quarantine at its second session, held in Geneva from 5 to 14 December 1949 5 revised the draft international sanitary regulations, which will enter into force after the final text has been approved by the World Health Assembly WHO will then have accomplished a work of paramount importance which will have a considerable effect on international relations

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The following took part in this accision Membe s

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PR Dulartic de la R1 sère Sous Directeur de l'Institut Pasteur Paris France
Dr (I L Dumahoo Med cal Director Chief Di islon of foreign Quaranu « (US Publ e Health Service)
Washington Dr (USA
Washington Dr (USA
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Compilation of the Draft International Sanitary Regulations

The drawing up of the text of the draft international sanitary regula tions as submitted to the Executive Board was made possible by carrying out extensive preliminary investigations and by referring to the most recent scientific data. The latter were supplied by the work of the expert committees and study groups on cholera yellow fever plague insecticides and environmental sanitation which has been reported in the Chronicle Other fundamental work had already been carried out particularly on smallpox on the inspection of anti-yellow fever vaccine bills of health etc. and on improving the system of epidemiological notification? Con sequently it was possible to study the draft of the revised international sanitary conventions in the light this fresh knowledge had thrown on the epidemiology, etiology and prophylaxis of pestilential diseases. All this new information acquired during recent years clearly shows that many articles in the old conventions are now out of date or invalid

In addition to the work that has been mentioned the expert committee considered draft international sanitary regulations drawn up by its chair man Dr M T Morgan in collaboration with Dr M Gaud Directeur Office International d Hygiene Publique This study also included draft supplementary regulations to be applied to the Red Sea area during the season of the Mecca pilgrimage Various suggestions and observations concerning the revision of the conventions were also made by govern ments and by the International Civil Aviation Organization These comments may be divided into four classes (1) general observations (2) observations the production of the pilgrimage (4) observations referring to sanitary conditions in connexion with the movements of certain groups of travellers The expert committee also noted the recommendations made on its behalf

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¹¹ Dr W W Y g D ect WHO Epd mology all till g ce St u Sing pore
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FIG 2 EXPERT COMMITTEE ON INTERNATIONAL EPIDEMIOLOGY AND QUARANTINE SECOND SESSION I



Left to right Dr F L Soper (PASB) Dr M T Morgan (Chairman) Dr Y M Biraud WHO)
Dr G Stuart (WHO)

by the following WHO expert committees and study groups which met during 1949 Expert Committee on Insecticides (10 15 May) Expert Committee on Plague (19 24 September) Joint OHP/WHO Study Group on Cholera (18 19 November) and Yellow Fever Panel (1 6 December)

Yellow Tever

Before the meeting of the Expert Committee on International Epide miology and Quarantine the Yellow Fever Panel met in Geneva from 1 to 6 December 1949 to determine the present position of yellow fever with regard to quarantine and preventive measures. Their findings have been summarized elsewhere in this issue §

Plague

Among the fictors considered in connexion with quarantine measures against plague the following should be mentioned specially the delimitation of endemic areas the possibility of exterminating reservoirs and vectors of plague in scaports and airports the preventive treatment of pneumonic plague and the possibility of disinfesting rice. The report

on the first session of the Expert Committee on Plague formed a basis for the study of these subjects 9

Cholera

The study of endemic areas and that of the connexion between epidemic outbreaks of cholera is continuing. In India endemic areas have already been defined and many factors causing the endemicative of cholera in that country have now been ascertained. The Joint OIHP/WHO Study Group on Cholera made recommendations concerning the elimination of the endemic foct at a later stage ¹⁰

Environmental Saurtation

It is obvious that water pollution lack of food hygiene the presence of insect or animal vectors of communicable diseases and other deficiencies with regard to sanitation favour the spread of pestilential diseases. It follows therefore that WHO by its work on environmental samitation can play an important part in exterminating these diseases. In fact as

FIG 3 EXPERT COMMITTEE ON INTERNATIONAL EPIDEMIOLOGY



Left to right (seated round table) D F de Ta el (ICAO) P de Ballaigue (Un ted Nations) Dr G H de Pa ta Souza Dr M Gaud (OHP) D K C K E Raja Dr R D j ic de la Ri lêre D F L Soper (PASB)

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Dr H S Gear stated in a document submitted to the committee qua rantine barrier methods are of very limited value and resistance of a community to infection is dependent upon its internal conditions

Insecticides

The Expert Committee on Insecticides ¹¹ gave technical advice on international specifications for insecticides and on the design of spraying equipment. Standard methods for the disinsection of ships and aircraft were also suggested. The role of insecticides in the control of flies was studied as well as the measures necessary to prevent the introduction of anophelines into non infested areas.

Revised Draft International Sanitary Regulations

The revised text of the draft international sanitary regulations, which has been presented to the Executive Board will be passed to Member States and to interested international organizations for comments and will then be submitted to the World Health Assembly for final approval. The regulations will be put into force during the six months after this final approval has been given. The draft, as amended by the Expert Committee on International Epidemiology and Quarantine contains a list of definitions of the special sanitary and epidemiological terms mentioned in section 1. The second part comprises the articles dealing with the maintaine and aerial conventions. The sanitary regulations applicable to the Red Sea area during the season of the Mecca pilgrimage are contained in a separate document which also provides information on the safety and sanitary standards necessary for the protection and welfare of the pilgrims during transport by sea and air.

Once they have been adopted the WHO regulations relating to the international control of epidemics should remain in force for a fixed period, such as five years without amendment, so that the confusion which would be caused by frequent changes may be avoided and also to enable the officials responsible for their application to become familiar with the regulations. For this reason the committee was of the view despite the opinion expressed by the First World Health Assembly that the clauses relating to the saintary inspection of the Mecca pilgrimage should not be incorporated in the basic regulations.

Second Session of the Quarantine Section

The Section on Quarantine of the Expert Committee on International Epidemiology and Quarantine—composed of Dr Dunnahoo (Chairman)

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Dr Mackenzie Dr Nazif Bey Dr de Paula Souza and Dr Raia-met in Geneva on 13 December 1949 Since the first meeting 1 about twenty complaints had been submitted by governments regarding measures imposed by other governments in excess of the provisions of the present international sanitary conventions. The Section on Quarantine noted that the Secretariat had dealt adequately with the majority of these prob lems. At this meeting other questions were also considered as a result the validity of certificates for inoculation against yellow fever issued in the prescribed manner by military doctors was recognized and the right of every government to prescribe the disinsection treatment it considers necessary for aircraft was acknowledged Travellers coming from an area free from A aegypti and visiting a sanitary airport in a vellow fever area on their way to an area considered to be exposed to infection 1 e infested with A gegipti should not in the opinion of the Section on Ouarantine be obliged to produce a certificate of inoculation against vellow fever. If however there is some doubt as to whether the sanitary airport is infested with A aegipti the certificate if demanded should have a duration of validity identical with that prescribed by the Interna tional Sanitary Convention for Aerial Navigation 1944 that is from ten days to four years after the date of moculation Finally with regard to deratting certificates it was decided that if seven months had elapsed since a deratting certificate was issued the health authority of the port in question would have the right to submit a ship to further deratting

The report on the second session of the Expert Committee on International Epidemiology and Quarantine as well as that of the Section on Quarantine will be published shortly as World Health Organ atton Technical Report Series in 20

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VELLOW FEVER AND ENDEMIC AREAS

Members of the Yellow Fever Panel met in Geneva from 1 to 6 Decem ber 1949 to advise the Expert Committee on International Epidemiology and Quarantine which is responsible for drafting the new WHO samitary regulations for the five pestilential diseases (plague, cholera, yellow fever typhus and smallpox) The experts examined the present position regarding vellow fever endemicity with a view to making the preventive and quarantine measures as tolerable as is consistent with the protection of public health

In South America and especially in Brazil, as reports presented to the nanel by Dr W S Sá Antunes and Dr F L Soner clearly show, intensive compaigns in conjunction with the Pan American Sanitary Bureau, with insecticides with residual action, have led to the elimination from urban centres of the vellow fever vector, Aides aegipti. These achievements made it possible to envisage in the near future the disappearance of this mosquito from the entire country

The position in Africa is less satisfactory. The panel recommended that campaigns should be undertaken in this continent for the extermination of the vellow fever vector and that WHO should provide technical and financial assistance to any health authorities concerned who might desire it It is possible however that such campaigns can be carried out successfully only in those areas where Aedes aegypti is not a forest dwelling mosquito

Enzootic and Endemic Yellow Fever

The progressive destruction of Acdes aegipti in South America has reduced the danger of urban epidemics to a minimum and makes it possible to contemplate the eradication of yellow fever from all inhabited areas It is impossible however, to expect the final and complete disappearance of this disease. It does in fact exist in enzootic form among cert un jungle animals (jungle yellow fever) in areas where Acdes aegipti is not present and where it may nevertheless occasionally be transmitted to man (wood cutters hunters etc.) This possible source of infection therefore, must always be borne in mind when considering the epidemiology of yellow fever

The follow is were present Member

Dr W S Så Antunes Director National Yellow Fe er Servi e Ministry f Education and Health Rio de Janeiro Braz I

Dr Q L. Dunnahoo Med cal D rector Chef Di i lon of Fore an Q arantine (US Public Health Service)
Wa hington DC USA

Dr A F Mahaffy formerly Director Yellow Fev r Re carch Institut Entebbe Uganda (Chal man) Médecin-C lond to Sale n Adjoint technique du Direct ut d' Servic de Santé colonnal Ministère de la France d'Outre Mêr Par y France

Dr C Stuart Chief Sanitary Convent ons and Quarantine Section WHO

Dr.Y. M. Braud D. ector. D. sion of Ep demiology. Wild. and Dr.L. L. S. per. D. rector. Pan American.
Sanitary Burea. and D. rector. WHO Reg. on al. On ce. for the Americas. Was hingt in D.C. USA. al. o. strended.

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FIG 4 YELLOW FEVER PANEL FIRST SESSION



Left to right Dr.F.L. Soper (Regional Director WHO) Médecin Colonel G. Saleun, D.A.F. Mahaffy (Chairman), Dr.W.S. Sá Antunes, Dr.G.L. Dunnahoo

Observations made in South America over a period of many years show that it is possible to distinguish four types of areas where yellow fever exists

- (1) errootic areas where Aedes aegypti is not present but where the virus exists and persists among animals for long periods causing from time to time accidental cases in man
- (2) epizootic areas in which Aedes aegipti is not present but where the disease appears in animals from time to time for short periods
- (3) endemic areas in which Aedes aegipti is present and where the virus exists and remains for long periods and where its transmission from man to man is therefore possible
- (4) epidemic areas in which human cases due to the transmission of the virus by Aedes aegypti occur

Delimitation of Endemic Areas

The endemic areas to which quarantine measures are permanently applied were delimited by UNRRA in 1946 2 as laid down by the International Sanitary Convention for Aerial Navigation 1944. It now devolves

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upon WHO to give practical effect to this delimitation on the lines of the recommendations of the Yellow Fever Panel These recommendations are based on various criteria

For America they are based on reported clinical cases, on the results of the systematic examination of liver specimens taken from all persons dying after a febrile illness lasting ten days or less on immunity tests carried out with human and animal sera and on the Acades acquire index 3

ried out with human and animal sera and on the Acaes acgiph index. For Africa, they are based mainly on the results of immunity tests

The delimitation set up in 1946 was re examined during this session and the pinel suggested various modifications. In all cases where towns and ports are excluded from endemic areas, the condition was expressly made that the Aëdes aegipti index should not exceed 1% and that a quarterly report on the subject should be sent to WHO. A zero index is desirable, and has been attained in South American ports.

America

The panel considered that the port of Manaos (Brazil) should be excluded from the endemic area. On the other hand, the rural areas of the whole Republic of Panama and of the Pinama Canal Zone (excluding the ports) should be included therein

Africa

The endemic area which extends from latitude 15°N to latitude 10°S, i.e. over almost the whole of tropical Africa, should be left as originally defined by UNRRA until as was the case of South America further research on the distribution of the virus and its vectors permits more exact determination of the yellow fever endemic areas in this vast territory It would then be possible to adapt quarantine measures more exactly to cover the actual risks of infection. Nyasaland and the territory to the south of Barotseland lying between longitudes 23°E and 25°E and as far as latitude 21°S should be incorporated in the endemic area. On the other hand conditions at the port of Jibuti (French Somalitand) are such that it may be excluded. In its request for exemption the French Govern ment pointed out that not a single case of yellow fever had been observed in the town for 55 years and that very strong measures have been taken by the health services to ensure effective control throughout the whole of the surrounding territory.

Certificates of Inoculation against Yellow Fever

After specifying various measures to be taken in connexion with similary conditions at airports and quarantine measures applicable to aircraft

The AEA a cypti index gives the percentage of dwell gs that i of hab tat ons occup ed by a al gle faml y in which AEAe act pyril larvae are found. Comp. I tion of the index is to be based on an examination of all dwellings in a port cut or area.

ships and other vehicles as well as to the passengers the experts examined the question of certificates of inoculation against yellow fever. They felt that the certificates should be recognized as valid from the tenth day to the end of the sixth year following inoculation. These figures ensure an adequate safety margin since it has been shown that effective immunity becomes established as early as the seventh day after inoculation and that it lasts more than six years.

Furthermore the experts suggested that the certificate of immunity against yellow fever introduced by UNRRA be abolished. In point of fact the International Sanitary Convention of 1944 amending that of 1926 provided that a certificate of immunity could be accepted instead of an inoculation certificate. This certificate of immunity had to be issued by an approved laboratory to persons recognized as being immune as the result of an attack of yellow fever. However, it is practically never requested by those concerned. Moreover, it is impossible for laborationes to distinguish the immunity established as a result of inoculation from that conferred by the disease finally there is no known contraindication to the inoculation of immune persons. For all these reasons abolition of the certificate of immunity seems to be justified.

MALARIA CONTROL IN ISRAEL

Professor G G Mer Chief Antimalaria Service of the Government of Israel and Director Malaria Research Station Rosh Pina has reported the results obtained since 1945 by the milaria control campaign to the WHO Eastern Mediterranean Regional Committee which met in Geneva from 12 to 15 October 1949 and to the Expert Committee on Milaria

Among the Jewish population in the Israel portion of Palestine con stitute of old settlers and new immigrants the incidence of malaria was 1 207 in 1945 466 in 1946 and 226 in 1947. During this period the population was 600 000. In 1948 the population increased by 150 000 and 1 227 new cases of malaria were recorded.

The methods used in malaria control have been gradually expanded since 1945 through the application of DDT and the use of proguant (paludrine) DDT has been applied as a larvicide and insecticide Proguant has been used since 1948 as a clinical suppressive agent

In his report Professor Mer makes some observations on these different methods of malaria control. He is of the opinion that a 1-25 % solution of DDT in kerosene is very effective as a larvicide provided the application is repeated every 15 days during the summer. A 5% solution of DDT in kerosene sometimes with 05% seame oil added was used for disinsecting dwellings. 19 of DDT applied per square metre. It was found that the

application of DDT as an insecticide effected a decrease in the occurrence of Anopheles sacharou, but a similar reduction was not observed in the case of A superpictus or A sergentii

Suppressive treatment with proguantly proved effective and is capable of the checking a malaria epidemic in 2 weeks if the individual doses of the drug are adequate that is, 0.2 g administered twice a week. Doses of 0.1 g were insufficient for preventing all cases of falciparum infection and for suppressing all vivix infections. The curative effect of proguantly not both falciparum and vivax infections was generally poor compared to that of quinnine or mepterine taken with or without plasmoquine.

Reports from WHO Fellows

Many of the letters and reports received from WHO Fellows have been of such interest that they deserve to be read by a wider public. They demonstrate more vividly than a series of facts and figures both the character of the fellowship programme and the response of the Fellows themselves Selections from these reports have therefore been published from time to time but it must be emphasized that the opinions expressed therein are those of the Fellows themselves.

Production of BCG at Copenhagen

Dr G A Villareal Cluef of the BCG Clinical Control Service of the National Commutice for the Control of Tuberculosis in Mexico has had an opportunity of studying the production of BCG at the State Serum Institute Copenhagen. In the report he has submitted Dr Villaread describes the various stages of production and stresses the care taken by the institute to obtain a high-quality succine.

In view of the fact that BCG cannot either be heated or mixed with an antiseptic, it has to be prepared with the utmost care in order to avoid contamination and to ensure that its potency is stable and adequate. The BCG Department of the State Scram Institute Copenhagen takes every possible precaution to achieve this. Before engagement the staff undergo a thorough cheft examination which is repeated every three months. They are forbidden to enter the laboratories where work is in progress on virulent strains of tubercle bacilit. The whole of the staff works with a sense of responsibility observing the strictest dasplane and the most rigorous aseptic rules.

The vaccine is prepared in a special building apart from the rest of the institute and the animals used for testing are likewise isolated. Equipm it is carefully sterilized and is subjected to strict inspection. The room where the vaccine is prepared is provided with eight ultraviolet lamps for an area of 5m > 5m which give an adequate sterility margin to the whole room. These lamps are always switched on for 15 minutes before any work is begun.

The vaccine prepared at the institute is intended for intradermal administration. It contains 0.75 mg of bacilit per millilitize of diluted Sauton medium. It is prepared once a week and is stored in a refrigerator at a temperature of 2 to 4.00 mg.

The strain of BCG which is used in the State Serum Institute was obtained from the Institut Paster Paris in 1931. During the first 10 years the culture was subcultured in bile potato broth with transfers to glycerine potato broth and finally to liquid Sauton medium. At the present time subculturing is usually carried out directly in Sauton is medium the transfer to bile potato broth being made only after 100 to 150 passages through the former medium.

The vaccine itself is prepared from the cultures in Sauton's medium. The age of the culture has a great influence on the potency of the vaccine. If the culture is young the potency of the vaccine will be low If on the other hand it is old the potency will be even lower owing to the presence of many dead bacilly. Fourteen days seem to be the optimum growing period for the cultures then contain the highest number of living bacilly Before the vaccine is prepared the cultures are examined to make certain that the liquid is clear the bottles containing the cultures are then shaken and their contents are poured into a filter (Birkhaug apparatus). The mass of bacilli is pressed by the piston of the apparatus and has the appearance of an almost dry cake. After various operations have been performed the culture is weighed and is then transferred to a sterile Fernbach flask containing 2.5 kg of stainless steel balls of 4-mm diameter. The quantity of BCG obtained is usually between 5 and 10 g per flask. The flasks are then placed in an electric rotator which revolves at 40 rpm in order to disintegrate the mass of bacilli and produce a homogeneous suspension 20 ml of diluted Sauton medium are then added The duration and speed of the rotation have an effect upon the quality and potency of the vaccine If the rotation is of too short duration, the emulsion will still contain lumps If on the other hand it is continued for too long the bacilli will be impaired and partly destroyed and the resulting vaccine will have a low potency. The optimum time of totation is six minutes. In order to obtain the stock suspension a sufficient quantity of diluted Sauton medium is added until the suspension contains 40 mg of bacilli per millilitre From this suspension the vaccine is prepared by adding diluted Sauton medium so that the liquid finally contains 0.75 mg of bacilli per millilitre. It is then put into ampoules

At various stages during its production the vaccine is submitted to a sterility test (for aerobic and anaerobic micro organisms) The potency of the vaccine is then estimated since being a suspension of living bacilli the vaccine cannot be standardized. It follows therefore that production of the vaccine at its various stages must be made as uniform as possible if a stable potency is to be obtained. The ideal vaccine is one that can cause anergic persons to react to the tuberculin test without giving rise to any complications If the vaccine contains less than 0.75 mg of bacilli per millilitre it will have a low potency. It will give a less certain immunity, and for a shorter period, than the normal Should it contain more bacilli per millilitre its potency will be greater. A vaccine with a very high potency may cause strong local reactions, such as abscesses which although not serious may in the long run discredit BCG. The BCG department therefore recommends that great care should be taken to weigh the bacilli as accurately as possible. For this the cultures must be dried sufficiently before being weighed. Four dilutions of the vaccine in decreasing strengths are tested by inoculation into four white guinea pigs each weighing 450 grams. The local reactions after intradermal inoculation should be measured twice a week, and this observation should be continued until the nodules have disappeared

From the very beginning of the production of BCG innocutify tests have been carried out systematically on guinea pigs at the Copenhagen institute with the object of detecting both virulent tubercle bacilli and other pathogenic organisms. These tests have shown that BCG is a stable organism which is unable to give rise to general tuberculous.

The content of viable bacilli in the vaccine is determined from the number of colonies appearing on Lowenstein is medium after six weeks of incubation. The homogeneity of the suspension is also examined.

The laboratory is kept informed by the antituberculosis dispensary of the reactions to and results of BCG inoculations. Dr Villarreal himself was able to perform most of the tests which he discribes in his interesting report.

WHO Publications

Epidemiological and Vital Statistics Report

Contents of numbers of the Report published since the last listing ¹ follow

1 of 1 No 18 (November 1948) Malaria in Europe 1938 1947 by E. Pampana

Table Malana I of I (December 1948) The declining death rate by K Stowman Tables General death rates in some countries. General death rates in large towns. Tuberculosis

mortality

1of 2 No 1 (Januar) 1949) Syphilis and generations in Germany by T Guthe

Tables Symbols Generations (represent infections)

Tables Syphilis Gonorrhoea (gonococcal infections)

1 ol 2 No 2 (Februari 1949) The 1949/49 influenza wave in Europe by G Stuart.

Tables Influenza Undulant fever Relapsing and tick fevers Iol 2 No 3 (March 1949) Tables Birth rates in some countries Birth rates in large towns Infant mortality rates in some countries Infant mortality rates in large towns Iol 2 No 4 (April 1949) Evolution of mortality in Europe during the twentieth

century by M Pascua Table Smallpox

101 2 No 5 (May 1949) Tables Cholera Yellow fever Typhus fever Dysentery

101 2 No 5 (Mai 1949) Tables Cholera Yellow lever Typhus lever Dysentery 101 2 No 6 (June 1949) Tables Whooping cough Diphtheria 101 2 No 7 (July 1949) Tables General death rates in some countries General

death rates in large towns Tuberculosis mortality

101 2 No 8 (August 1949) Prevalence of plague in the world in recent years by

For 2 No 8 (August 1949) Prevalence of plague in the world in recent years by P M kaul Table Pligue

101 2 No 9 (September 1949) Tables Measles Scarlet fever Cerebrospinal

meningitis

Vol. 2 No. 10 (October 1949) D aths by cause sex and age in Europe by

Vol 2 No 10 (October 1949) D aths by cause sex and age in Europe b M Pascua (with detailed tables)

Official Records of the World Health Organization

Two numbers of the Official Records were published in December 1949

No. 21 Secont World Health Assembly. This number is divided into three parts. Part I contains the decisions and resolutions adopted. Part II contains the report of the proceed ings subdivided into verbaltim records of the Plenary meetings minutes of the General Committee and main committees and committee reports. Part III contains 24 annexes comprising detailed reports on specific subjects notes and comments submitted by delegations texts of agreements etc.

No 2? Report of the Executive B and fourth session. In addition to the report on the work of this session and relevant annexes this number contains in the form of a supplement reports on the three sessions of the Joint Committee on Health Policy UNICEF/WHO

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Notes and News

Dr Raymond Gautier Leaves WHO

At the beginning of this year Dr.R. Gautier retured from the post of Assistant Director General of WHO. In March he will assume the functions of Research Director for the International Children 5 Centre in Paris.

Dr Gautier was born in Geneva on 7 January 1885. After graduation as Doctor of Medicine from the University of Bast he was appointed assistant in the Institute of Pathelogical Anatomy of that University in 1918, and first assistant in the Laboratory of Physiology University of Geneva in 1920. He received the Bizot wavid for his research on the cerebrospinal fluid and specifically for having enunciated the concept of the blood brain batter.

In 1923 and 1924 he was Chref of Operations at the Institut of Hygiehe et de Bacterologie University of Geneva. It was there that he undertook original research on among other subjects bovine fluorosis in relation to the emanations of aluminum works.

In 1924 Dr Gautier joined the Health Organization of the League of Nations where he was concerned with biological standardization From 1926 to 1930 he occupied the post of Director of the Eastern Office League of Nations Health Orga nization at Singapore took an active part in combat ing the cholera outbreak at Shanghai in 1928 and in establishing a radio enidemiological information service. He was also the initiator of a series of epidemiological and immuno logical studies

After his return to Geneva in 1930 he devoted his full time to biological a andardization for the next eight years. The two studies which he published in FIG 5 Dr R GAUTIER



the next eight years. The two
studies which he published in 1935 and 1946 provide a resume of all that had been
done in this field and are considered as reference works of permanent value.²

In 1939 he was appointed Acting Director of the Health Section of the League of Nations in which post he remained until 1942. From then until the end of the war Dr Gautier was entrusted with a series of important missions to London and Washington for the purpose of organizant health measures in liberated Europe.

When the Interim Commission of the World Health Organization was established in 1946. Dr Gautier was appointed Counsellor and later Director of the Geneva

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Office. In 1948 he became Assistant Director General of the permanent Organization Dr Gutter is the author of numerous medical works dealing specifically with questions relating to the epidemiology of searlet fever and cholera to pituitary tumours peroral vaccination tropical pneumonia preventive vaccination of dogs against rabies bacteriophages etc. He is a Member of the Senate of the Académie suisse des Sciences médicales and Honorary Member of the Epidemiological Section of the Royal Society of Medicine London

The International Children's Centre in Paris where Dr Gautier will continue his career is a new foundation of the French Government which according to its statutes has as its objective the promotion in the different countries of the world of the study of problems pertaining to infancy the propagation of knowledge on hygeine and child welfare and the technical training of specialized personnel. The centre is available to the specialized agencies and services of the United Nations as well as to various national institutions for the protection of mothers and children.

In announcing his colleague's departure to the WHO Executive Board Dr Brock, Chisholm WHO Director General said We are losing a loyal co-operative and highly skilled colleague The Executive Board unanimously expressed its deep appreciation of Dr Gautier's long and eminent service in international health and especially of his work in the World Health Organization

World Health Day

The Second World Health Assembly decided that World Health Day should be observed on the anniversary of the entry into force of the WHO Constitution following its ratification by 26 States Members of the United Nations (7 April 1948). Various suggestions have been made by the WHO Director General to governments recarding the organization of programmes for this day. The list of suggestions has been drawn up partly on the basis of reports from various countries recarding programmes organized in 1949.

The theme which has been proposed by the Director General for 1950 is know your Own Health Services. This theme brings together the national and international aspects of public health work. It will encourage people to study their own health problems and the services which are coping with them will assist them to determine what contribution they themselves can make towards improving their health and will enable them to become informed concerning the work being carried out by national health authorities and by WHO.

The celebration of World Health Day might possibly be combined with the special health days or health weeks which some countries devote to health problems all that would be necessary would be to have the two celebrations coincide.

An information kit containing background material to serve as a basis for organizing World Health Day programmes is being prepared. Among the suggestions already sent to governments is information on the co-operation which national health administrations can obtain from different institutions and associations educational centres the press radio etc.

Two Women Specialists Appointed WHO Expert Consultants

Two women specialists who have been appointed expert consultants of the World Health Organization left Geneva on 19 December 1949 to earry out the tasks with which they have been entitusted. They are Dr Pearl Kendrick, chief of the Western Michigan Laboratory one of the branches of the Department of Health of Michigan and Mits Lucia Moholy formerly Director. Asiab Microfilm Service Victoria and Alb rt Museum London.

Dr. Kendrick went to London at the request of the United Kingdom Ministry of Health to assist in organizing mass vaccination campaigns against whooping cough. This disease presents serious problems in Britain where it causes more deaths among children than does diphthena in England and Wales 148 fatal cases were registered in 1948 and 217 were recorded in the first quarter of 1949. Dr. hendrick is the first WHO exerct whose services have been requested by the United Kingdom.

Mts Moholy has visited Prague to collaborate with the Czechoslovak Government in establishing documentation and microfilm services at the State Medical Library Once these services are organized they will be available to other countries of eastern

Europe

Venereal Diseases

India

A number of points in the December 1949 report of the WHO venereal disease demonstration team in India 1 are of interest

First of all the proportion of sero positivity is remarkably high the adult rate being about 70 / Cases of syphilis in the early infective stage are numerous. Cases of clinically diagnosed granuloma inguinale are more common in women. It is interesting to note that cases of acute gonorance in men are rare. The general state of health of the population is precanous and reveals the lack of medical attention.

On 3 December the programme of mass treatment in the Ghund area was completed frose suffering from symbils had been given procame penciflin G in oil with 2/aluminum monostearate. The response of the people themselves deserves comment Although they had been informed by the authorities of the details of the campaign and the benefits they might derive from it they were very suspicious. Hence at the start there were not many patients. The results of treatment in those suffering from early stiphilitie lessions or even common impetings became apparent about the third day so that confidence was rapidly established. From then on the population showed its approval by flocking to the treatment centre. Dr J. Nuttingen returning to the area one month after the campaign had started was unable to discover any fresh case of venereal disease whereas previously some 15 to 20 new cases were deterred every month.

Finland

A venereal disease specialist Dr M Tottle of Stockholm has left Geneva for Helink where he will take part in the anti venereal disease campaign that has been launched in Finland by the United Nations International Children a Emergency Fund (UNICEF) and WHO. He is to make a special study of the methods of treatment and prevention of congenital syphilis

Inoculation and Vaccination Certificates

WHO has recently published a List of Countries Inoculation and Vaccination Certificate Requirements as on 1 December 1949 a

There is no provision in the international sanitary conventions now in force for making vaccination or innoculation against plague cholera yellow fever typhus or smallpox compulsory. However for some years such certificates have been demanded by certain countines from travellers coming from infected suspect or even healthy are An investigation undertaken by WHO in September 1948 among the health administrations of every country has scalabled data to be obtained from 105 countries or territors.

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FIG 6
WHO VENERAL
DISEASE DEMON
STRATION TEA
IN INDIA

Taking blood sample from patients at a rehospital near Simil

FIG 7 WHO VENEREAL DISEASE DEMONSTRATION TEAM IN INDIA II

Giving an anti venereal-disease injection





FIG 8 WHO VENEREAL DISEASE DEMONSTRATIO M IN INDIA Taking &

It is obvious that WHO does not necessarily approve of all the measures that have been enforced. Its aim is simply to make known the existing state of affairs.

The position will doubitess be modified after the publication of the new WHO international sanitary regulations which have recently been drafted by the Expert Committee on International Epidemiology and Quarantine 3

Training for Antituberculosis Work to Turkey

An ansusbervolous trauma-centre is to be set up in Turkey with the assistance of WHO Dr E Berthet tubervolous officer of the Department of leker France has been made re possible for the organization of the centre with will be concerned with prophylatar with methods of diagnosis and with the treatment of tubervolous Equipment will be provided by WHO. The setting up of this centre will mark the launching of a large scale noverarme of underrulous and the control in Turkey.

WHO Sends Nurses to Borneo and Aorea

Five nurses left Geneva on 23 January 1950 for Borneo and Korea They will assist in carrying out maternal and child health programmes

Miss I Simmons and Miss P Scanlan are going to Brunes while Mile H Wenger and Miss O Warren have been posted to Sarawak both these territories are situated in the north west of the island of Borneo

Mile W Visscher is going to South Korea and will form part of a team headed by Dr E Leppo a member of the WHO Secretariat

Pohomyelitis in India

In order to check the epidemic that has broken out in India a team of WHO specialists in the treatment and rehabilistance of poliomyelis victums has left for accounty. The team is made up of Dr N. Kezerian Assistant Resident Orthopaed Surgeon Johns Hopkins Hospital Ballimore USA Mry H. Kereina a nurse at the same ho pital and Miss S. A. Bruton a physiotherapis attached to the Maryland Learne of Conoled Children.

Homeless Children

Dr J Bowlby Director of the Child Guidance Department of the Tavistock Clinic London has been appointed by WHO to study the problem of homeless children Dr Bowlby left Geneva on 16 January 1930 for Paris Amsterdam and Stockholm where he will visit various institutions and reception centres. He will collect scientific data on the effects of loss of parents or home on the mental health of children

See page 46 See Ch o H Id HI h O g 1949 3 92.

WORLD HEALTH ORGANIZATION TECHNICAL REPORT SERIES

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2. Expert Committee on Biological Standardization report on the

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CHRONICLE OF THE WORLD HEALTH ORGANIZATION

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WHO Executive Board Standing Committee on Admi 6 30 January nistration and Finance Geneva

WHO Expert Committee on Drugs Liable to Produce Addic 9 14 January

tion second session Geneva WHO Executive Board fifth session Geneva

16 January 2 February 6-11 February WHO Expert Committee on Professional and Technical

Education of Medical and Auxiliary Personnel first session

Geneva

WHO Expert Committee on Nursins, first session Geneva 20-26 February

27 February 3 March WHO Expert Committee on Health Statistics Subcommittee on the Definition of Stillbirth and Abortion Paris

6 10 March WHO Expert Committee on Health Statistics Subcommittee

on Cancer Registration Paris

11 15 April WHO Expert Committee on Antibiotics first session. Geneva. WHO Expert Committee on Health Statistics Subcommittee 11 15 April

on Hospital Statistics Geneva

WHO Expert Group Meeting on Prematurity Geneva 17 April tentatively 17 22 April WHO Expert Committee on Rabies first session Geneva

18 22 April tentatively WHO Expert Committee on Health Statistics, second session Geneva

WHO Expert Committee on the Unification of Pharma 20-29 April

conocias sixth session New York

8 May Third World Health Assembly Geneva

WHO Executive Board sixth session Geneva lune

August WHO Expert Group Meeting on School Health Geneva September WHO Regional Committee for the Eastern Mediterrinean

third session Ankara

September WHO Expert Committee on Tuberculosis fifth session Geneva

WHO Regional Committee for South East Asia third ses September

sion Colombo

VENEREAL-DISEASE CONTROL IN THE USA

Report of the WHO Syphilis Study Commission

The WHO Syphilis Study Commission has reported to the Expert Committee on Venereal Infections on a study tour made by its members to 13 States and more than 70 public health research and medical centres for syphilis control in the USA

The Commission consisted of seven members 1 and was set up in accordance with the request made by the Expert Committee on Venereal Infections during its second session that a temporary study group consisting of a limited number of outstanding venereologists from Europe and other regions be established in 1949 to evaluate the venereal disease control methods in the United States as to their effectiveness in national and international programmes 2 A difference of opinion on the treatment of syphilis exists between the supporters of the traditional therapy still to some extent upheld-particularly in Europe-and the advocates of foreshortened treatment methods based on penicillin and applied on a large scale in the USA. In recommending the formation of this Commission. during the second session of the Executive Board Dr Hyde pointed out that the survey could also be of value to the USA as it might serve to suggest improvements in the methods employed there 3. The report of the Commission which was extensively discussed by the Expert Committee on Venereal Infections during its third session, held in Washington from 10 to 20 October 1949 4 is summarized below 5

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RECENT AND FORTHCOMING MEETINGS

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WHO Executive Board Standing Committee on Admit 6-30 January

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WHO Expert Committee on Drugs Liable to Produce Addic 9 14 January tion second session Geneva

WHO Executive Board fifth session Geneva 16 January 2 February

WHO Expert Committee on Professional and Technical 6 II February

Education of Medical and Auxiliary Personnel first session

Geneva

WHO Expert Committee on Nursing first session Geneva 20-26 February

WHO Expert Committee on Health Statistics Subcommittee 27 February 3 March on the Definition of Stillbirth and Abortion Paris

WHO Expert Committee on Health Statistics Subcommittee 6-10 March

on Cancer Registration Paris

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18 22 April tentatively WHO Expert Committee on Health Statistics second ses

20 29 April WHO Expert Committee on the Unification of Pharma

conceras sixth session New York

8 May Third World Health Assembly Geneva WHO Executive Board sixth session Geneva

June

WHO Expert Group Meeting on School Health Geneva August Scotember WHO Regional Committee for the Eastern Mediterranean

third session Ankara

September WHO Expert Committee on Tuberculosis fifth session

Geneva

WHO Regional Committee for South East Asia third ses

sion Colombo

preparations (especially procaine penicillin with 2% of aluminium mono stearate) penicillin resistant strains of gonococci the effects of fever induced by the Kettering hypertherm method treatment with aureomycin and chloromycetin the recently developed treponema alanthody tech inque * study of the life cycle of Treponema palludum using the phase and electron microscopes false positive reactions the slide floculation on the therapeutic value of repository and aqueous penicillin preparations search for new antibotics experimental syphilis especially from the immunological viewpoint etc

Other research deals with the epidemiological aspects of control and includes the comparison of various methods for case finding and contact tracing methods which employ either vis ting nurses or auxiliary personnel specially trained for this task

Education

Education which forms part of all modern programmes for the control of disease is provided for the three following categories

- (a) professional and other groups working in venereal disease control
- (b) patients and
- (c) the general public

The postgraduate courses given by the schools of public health such as those at Harvard University or the Johns Hopkins University are addressed to the first group especially to doctors and sometimes to nutres. Furthermore the US Public Health Service subsidizes chairs of syphiology in certain midical schools. The professional groups are kept inform of scientific research by the Journal of Veneral Discose Information which has a monthly circulation of 15 000 copies. Recently this journal has been offered free for a period of one year to all senior medical students. Regional seminarts held twice yearly give the professional groups an opportunity to improve their knowledge. The most recent scientific subjects are dealt with during the annual meetings of the American Venereal Disease Association.

As regards the patient the aim of education is to instruct him in the nature of his divease and to persuade him of the absolute necessity of continuing the treatment until cured. It would clearly be preferable for this type of instruction to be individual however because of the lack of time and of qualified staff group instruction is often employed in the hospitals by means of talks illustrated with films and adapted to the intellectual level of the natients

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History and Present Organization of Venereal Disease Control in the USA

Certain outstanding dates mark various stages in the development of venereal disease control in the USA. In 1876, the President of the American Medical Association suggested that boards of health in every State be given the same powers for venereal disease control as they already possessed for the control of communicable diseases in general. In 1912, the State of California required its physicians to report cases of venereal disease, and by 1917 nine other States had followed this lead During the first World War, public interest was stimulated by the fact that venereal diseases were one of the leading causes of rejection of candidates for the armed forces. In 1917, the US Public Health Service ureed health officers to require the reporting of venerual diseases by physicians so as to ensure free treat Furthermore the individual States were invited to establish a venereal disease control division in their health departments Congress approved the setting up of a Division of Veneral Disease in the US Public Health Service. In 1936 a new law provided for aid to States so that they could establish and maintain preventive and control measures. A wartime programme was instituted in 1940 and further developed in the following years blood testing was applied to recruits and rapid treatment centres were set up throughout the country Later treatment with penicillin and other antibiotics was instituted

The duties of the Division of Venereal Disease of the US Public Health Service include the study of the citology prevention and treatment of venereal diseases co-operation with State health departments and prevention of the spread of these diseases by the movement of infected persons from one State to another. In 1948 of a total appropriation of \$192.848.100 for health services \$17.399.500 were allocated for venereal disease control representing one half of the total sum-spent on veneral disease control in the USA. The other half is provided from State local and private funds. Grants are provided by the Division of Venereal Disease of the US Public Health Service to ad States to set up their own services to finance research, and for the operation of rapid treatment centres.

Research

Two types of research are undertaken scientific and epidemiological. The Division of Venereal Disease of the US Public Health Service has a branch of laboratory and clinical research and its laboratory the Venereal Disease Research Laboratory at Staten Island. New York is world famous Other institutes supported by funds from various sources also carry out research, which includes all the venereal diseases.

The work deals with the following points among others schedules for ambulatory treatment by means of delayed absorption puncillin

Education of the general public which is a very important part of the control programme was started by a voluntary organization the American Social Hygiene Association and subsequently expanded by official agencies At first the attitude of the public towards the term venereal diseases impeded these efforts. However from 1936 onwards thanks to the influence of certain public health officials the attitude of the public has completely changed and at present mass education in this field is more developed in the USA than in any other country. In certain schools lectures on venereal diseases form part of courses on human biology or domestic economy Private and public associations make a joint effort. Thus the Social Hygiene Days organized throughout the country are utilized for the campaign against venereal disease. A recent propaganda drive in Chicago employed various media of publicity such as television radio the newspapers posters in street cars sky writing etc A survey carried out in one city following such a campaign showed that 31% of the inhabitants were not reached 54% were slightly better informed and only 15% were really well informed. In general this propaganda gives better results with men than with women above all in the lower educational groups. The instruction which the men receive in the armed services may serve partially to explain this fact

Epidemiological Factors in Venereal Disease Control

Among the factors playing a part in the epidemiology of venereal disease which were studied by the Commission are the notification of cases case finding and the hospitalization of patients and facilities for diagnosis and treatment

Morbidity reporting

In order to plan a control programme it is necessary to know as accurately as possible the total number of cases and their geographical distribution. So as to facilitate the work involved in the collection of data and their classification and analysis standard forms have been drawn up in accordance with which the US Public Health Service establishes morbidity reports for the cities. In 1948 the health departments administered 3000 dispensaires which reported about 450000 cases. The notifications of these cases came from clinics hospitals various institutions private physicians houses of correction prisons etc. The recording and analysis of the data are undertaken in the district offices of the veneral disease-control division (e.g. in New York and Chicago) or in a centre for the mechanical tabulation of statistical data stanched to the State department of health (e.g. in Georgia). Information from local and State levels is passed to the Division of Venereal Disease of the US Public Health Service where it is analysed on a nation wide basis. It is estimated that



FIG 1 WHO SYPHILIS STUD COMMISSION - I

Right to left (seated round table) Right to left (sealed round table)
Dr J F Mahoney Chairman Will
Committee on Venereal Infections)
Clarke (Executive Director America
Hydleno Association) Dr N Jun,
Dr S Levitan (Venereal Disease &
Laboratory, U.S Public, Health Y
Laboratory, U.S Public, Health Y
Laboratory U.S Public, Health Y
Laboratory U.S Public, Health Y
Louis Dr R C Annotod (Vaneral)
Research Laboratory U.S Public, He
Levice) Dr E I Grin Dr S M Lar
Del Vecchio (Serologist US Public
Service) Service)

FIG 2 WHO SYPHILIS STUDY COMMISSION - II



The commission at the Venereal Disease Research Laboratory Staten Island Lelit to right Dr R C A round (Venereal Disease Research Laboratory US Public Health Service) Dr J M Funes (Vice Chair Health Service) Dr J M Funes (Vice Chair Chair (Executive Director American Social Hyglene Association) Dr J F Mabnoney (Chairman WHO Expert Committee on Veneral Infections) Dr P C Joulis Dr P V Marcussen (Chairman) E R Del Vecchio (Scrologist US Public Health Service)



FIG 3 WHO SYPHILIS STUDY COMMISSION - III

Examination of follow up cards of pt treated patients at the Venereal Research Laboratory Staten Island Left to right Dr R C Arnold (Vi Disease Research Laboratory US Health Service) Dr J F Mahoney (CN WHO Expert Comm N Veneres Hons) Dr P V S Levilan R S R infectious syphilis discovered) limits their general application. Consequently these examinations are at present combined with others for example chest x ray. Serological testing is compulsory in Alabama for certain age groups and most States require premarital and prenatal testing.

Diagnosis

Laboratory facilities for diagnosis are free throughout the USA and they are fully used by hospitals and clinics Each laboratory makes routine use of one or more tests. Since the introduction of penicillin therapy the quantitative flocculation tests and to a lesser extent complement fixation tests have been extensively employed Physicians are becoming familiar with the interpretation of the results. They have a growing under standing of the importance of false positive reactions a source of erroneous interpretation which is particularly grave when premarital and prenatal tests required by law or mass blood testing are involved. Moreover the ease of penicillin treatment may induce physicians to arrive at a too hasty diagnosis of syphilis based only on an unconfirmed or doubtful positive reaction. It is important for the medical profession to become increasingly aware of the danger of false interpretation of serological results Certain laboratories are content to perform only one precipitation test for the diagnosis of syphilis The Commission felt that two tests one precipitation and one complement fixation should be carried out whenever possible

Searological tests are periodically evaluated by the Venereal Disease Research Laboratory whose conclusions are circulated to the laboratories concerned with the aim of constantly improving these tests. The Commission pointed out the desirability of such systematic comparisons between laboratories on both a national and an international basis.

Treatment

Treatment for venereal diseases is given in the State and local dispensaries the rapid treatment centres for hospitalized patients and in institutions where separate wings or a certain number of beds are reserved for patients suffering from venereal diseases. Treatment is usually free or in some cases those who are able pay a fee. No case of syphilis goes without treatment because of inability to pay. In certain States, the health departments supply private physicians with antivenereal drugs. The purpose of these services is to promote closer collaboration between the health departments and the private physicians and to increase the facilities for treatment.

Although the latter appear to be adequate on the whole their distribution is not perfect for the areas of highest incidence do not always enjoy half of the venereal disease cases are treated by private physicians. The notification of cases by the latter varies from State to State at it is of the order of 5 to 25% of the total. The Commission felt that this proportion was very low and that an effort should be made to increase it. In small communities however, identification of patients merely by initials and date of birth might encourage doctors to report cases.

Case finding and hospitalization

The discovery of all infectious cases is also a very important epidemio logical aim. In 1948 the number of cases of syphilis in all stages was about 3 000 000 for the whole population of the continental USA 338 000 cases were diagnosed of which only 29.7% had open lesions 60% of the latter came for medical treatment on their own initiative and 6.4% as a result of contact investigation. Many syphilities in the primary or secondary stage did not come voluntarily for treatment for various reasons of a psychological nature or because of lack of money time or mans of transport.

The search for contacts is a form of case finding originating from basic principles in epidemiology. Every patient suffering from cirly syphilis is questioned with the aim of finding individuals constituting a chain of infection, and these persons are requested to undergo medical treatment.

The success of these interrogations depends to a large extent on the tret and competence of the interviewer. Public health nurses are specially trained for this task, but their insufficient number has made necessary the co-operation of lay investigators fulfilling certain requirements and to whom a training course is given. The number of cases detected by this method sterolity increased during 1944 to 1948.

Following the introduction of rapid treatment methods the problem of hospitalization has become less acute. Inquiries made in this connexion have shown that 80% of patients follow their treatment regularly only 35 out of 952 had to be hospitalized for not complying properly with the conditions of treatment. According to other observations 96.6% finished a ten day schedule without difficulty and only 21% broke off an eight day schedule.

Mass blood testing

Mass blood testing makes it possible to detect cases of syphilis which have escaped other methods and to estimate the total number of cases in all stages. Thus for example in one of the counties of the State of Mississippi. 13 618 persons out of a population of 35 792 were examined 1999 cases of syphilis were discovered, including 54 with open lesions. The very high cost of these examinations (about \$500 for every case of

morbidity reporting the fact that many private physicians do not report cases and the unknown proportion of cases receiving no treatment. Con sequently it is possible to draw only approximate conclusions however a general picture can be formed.

- (1) The proportion of cases observed in the civil population decreased from 3 5 per 1 000 inhabitants in 1941 to 2 3 in 1948. Statistics compiled in two States Massachusetts and Georgia lead to some interesting conclusions. In these two States infection with syphilis is on the decline. The number of cases with respect to the number of inhabitants is much higher in Georgia (3 49 per 1 000 inhabitants compared with 0.47 in Massachusetts). This difference is mainly due to the fact that 34 7% of the population of Georgia is negro whereas the corresponding percentage in Massachusetts is only 1.3. However experience has shown that for the whole USA the ratio of syphilis cases among the white to those among the negro population is 1.10. These figures show the importance of the racial factor in the general energed disease problem in the USA.
- (2) Statistics as well as the opinion of specialists expressed to members of the Commission at various centres show that early syphilis is also decreasing.
- (3) The trend of early syphilis in the USA during recent years has been almost the same as in other countries such as Denmark England and Wales and Finland—an increase during the war years reaching a maximum in 1946 (1944 in Denmark) then a decrease. The same pheno menon was observed after the first World War although Denmark was not a beligerent. This decline in veneral diseases after the increase observed during the war years consequently appears to be natural. It is clear that the decrease in morbidity is encouraged by the facilities for treatment and the control programme at present in force.

In the opinion of the members of the Commission facilities for treat ment and active case finding measures are more important in the control of syphilis than the use of any one drug in preference to another. However the existence of a non toxic drug such as penicillin mixing rapid treat ment possible is obviously a factor of major importance.

In its findings the Commission stressed that the methods applied in the USA for the control of syphilis could be successfully adapted to other areas. The use of penicilin particularly in the form of repository preparations methods for mass blood testing standardized laboratory techniques and new ideas applied to the compilation of data and the analysis of statistics case finding by means of specially trained lay personnel the co-operation of private physicians free diagnosis consultative and treatment services and the epidemiological measures employed may serve as examples to other countries engaged in the campaign against vancered diesess.

the largest number of facilities. In 1948, for example, 127,210 cases of syphilis were reported among the white population and 210 931 among negroes the respective rates being 93 7 and 1 375 5 per 100 000 inhibitinits. As 79% of the negro population—which represents 11% of the total population of the USA—live in the southern States at would seem that ficilities for treatment should be more numerous in these areas with their high syphilis morbidity rate. Since negroes emigrate from the southern States to the other States on a large scale risk of the consequent spread of veneral infection is considerable.

The Commission devoted a large section of its report to the results of penicillin therapy in the treatment of early and infinite syphilis as well as in the prevention of prenat d syphilis. These questions have been dealt with in articles published in the Bulletin of the World Health Organization? and summarized in the Chromele.

Measures against Introduction of Syphilis into the USA

To prevent the introduction of syphilis by immigrants, the laws of the USA provide for the compulsory treatment of all sick persons before their admission. These regulations the not always observed and many sailors suffering from infectious syphilis enter undiscovered and receive free treatment only later in a dispensity. A number of countries have been authorized to establish their own dispensities for seimen in US ports. This is to encourage seamen to come for treatment since they report more readily to doctors speaking their own language. A blood test is required of immigrants as well as of workers coming from neigh bouring countries. These measures should be of particular interest to countries where the importation of venereal diseases is a grive public health problem.

Trend of Syphilis as Affected by the US Venereal Disease-Control Programme

Three questions arise on considering the problem of syphilis in the USA and the results of the campaign against general disease

- (1) Is syphilis in all its stages decreasing?
- (2) Are early infections with syphilis on the decline?
- (3) What part has the syphilis control programme played particularly the widespread use of penicillin during the past five years?

The value of the available statistics is limited by several factors among others by the diversity of the techniques employed for case finding, and

^{*} Thomas F W (1949) B # # ## Hith O g 2 233 49

morbidity reporting the fact that many private physicians do not report cases and the unknown proportion of cases receiving no treatment. Con sequently it is possible to draw only approximate conclusions however a general picture can be formed.

- (1) The proportion of cases observed in the civil population decreased from 3 5 per 1 000 inhabitants in 1941 to 2 3 in 1948. Statistics compiled in two States Massachusetts and Georgia lead to some interesting con clusions. In these two States infection with syphilis is on the decline. The number of cases with respect to the number of inhabitants is much higher in Georgia (34 9 per 1 1000 inhabitants compared with 0 47 in Massachusetts). This difference is mainly due to the fact that 34 7% of the population of Georgia is negro whereas the corresponding percentage in Massachusetts is only 13. However experience has shown that for the whole USA the ratio of syphilis cases among the white to those among the negro population is 1 10. These figures show the importance of the racial factor in the general veneral disease problem in the USA.
- (2) Statistics as well as the opinion of specialists expressed to members of the Commission at various centres show that early syphilis is also decreasing
- (3) The trend of early syphilis in the USA during recent years has been almost the same as in other countries such as Denmark England and Wales and Finland—an increase during the war years reaching a maximum in 1946 (1944 in Denmark) then a decrease. The same pheno menon was observed after the first World War although Denmark was not a beligerent. This decline in veneral diseases after the increase observed during the war years consequently appears to be natural. It is clear that the decrease in morbidity is encouraged by the facilities for treatment and the control programme at present in force.

In the opinion of the members of the Commission facilities for treat ment and active case finding measures are more important in the control of syphilis than the use of any one drug in preference to another. However the existence of a non toxic drug such as penicillin making rapid treat ment possible is obviously a factor of major importance.

In its findings the Commission stressed that the methods applied in the USA for the control of syphilis could be successfully adapted to other areas. The use of penicillin particularly in the form of repository preparations methods for mass blood testing standardized laboratory techniques and new ideas applied to the compitation of data and the analysis of statistics case finding by means of specially trained lay personnel the co-operation of private physicians free diagnosis consultative and treatment services and the epidemiological measures employed may serve as examples to other countries engaged in the campaign against venercal diseases

Comments by the Executive Board

At its fifth session held in Geneva from 16 January to 2 February 1950. the WHO Executive Board considered the report of the Syphilis Study Commission and recommended that it should be given the widest possible distribution The Board expressed considerable interest in this type of WHO activity which aims at the study of special international health problems, and was in favour of the establishment of further study com missions as a means of stimulating the exchange of information between national health administrations and WHO

NEW EFFORTS IN CONTROL OF DRUG ADDICTION

A new convention dealing with the control of addiction producing drugs has now been prepared by the Division of Narcotic Drugs of the United Nations This Unified Convention is intended to replace the various existing diplomatic instruments the 1925 and 1931 Conventions -amended in 1946-and the 1948 Protocol which came into force on 1 December 1949 The Commission on Narcotic Drugs of the Economic and Social Council requested WHO to provide it with definitions for some basic terms to be included in the new convention. The establishment of these definitions is one of the questions which the Expert Committee on Drugs Liable to Produce Addiction 1 discussed at its second session held in Geneva from 9 to 14 January 1950 2

Formerly the Expert Committee on Habit forming Drugs Following the recommendation of the committee itself the Executive Board at its fifth session decided to change the denomination of the Expert Committee on Habit forming Drugs to E pert Committee on Drugs Liable to Produce Add cilon also under H bit forming drugs page 77

The following took part in this session Members

moders

1 Bouquet Doctour en pharmacie ex Pharmacien des Höpitsux de Tuna et ex Irapecteur des Pharmacies de Tuna et una Tunhia

DN B Eddy Medical Officer Austonal Institutes of Health (US Public Health Service) Bethedd

Md USA (Chelmun)

1 R Nicholis DS: Deputy Go ermment Chemist Government Laboratory London United Kingdom

Consultants Dr R F. Carratală Professor of Toxicology La Pista Nat onal Uni era ty Buenos Altes Argenina Sir Kam N Chopra Professor of Pharmacology Drector Drug Research Laboratory Srinagar Kashmir Dr G Joachmogle Professor of Pharmacology Cha riman Supernor Health Council Min 1170 of Hygleine

Athens Greece Rep ese tail es of the United Nations L. F Atzenwiler Assistant Secretary Permanent Central Opium Board and Drugs Supervisory Body

Geneva

B Celinski Division of Narcouc Drugs Lake Success N Y

J Dittert Statistician Permanent Central Opium Board and Drugs Supervisory Body Geneva Secretary

Dr P O Wolff Chief Addict on producing Drugs Section WHO

Dr H P Chu Professor of Pharmacology National Medical College Shanghai China was unable to attend

Basic Definitions

The committee suggested the following three definitions

Drug addiction Drug addiction is a state of periodic or chronic intovication detrimental to the individual and to society produced by the repeated consumption of a drug (natural or synthetic). Its characteristics include.

- (1) an overpowering desire or need (compulsion) to continue taking the drug and to obtain it by any means
 - (2) a tendency to increase the dose
- (3) a psychic (psychological) and sometimes a physical dependence on the effects of the drug

Addiction producing drugs An addiction producing drug is one which produces addiction as defined The committee added that according to information at present available any substance which will sustain an established addiction must be considered as also capable of producing an addiction

Habit forming drugs A habit forming drug is one which is or may be taken repeatedly without the production of all of the characteristics outlined in the definition of addiction and which is not generally considered to be detrimental to the individual and to society

The committee was of the opinion that the expression habit forming in the sense of addiction producing should be eliminated from all texts relating to drug addiction. It was for this reason that it proposed that its own denomination should be changed

Other Requests from the Commission on Narcotic Drugs

Fundamental structure of an addiction producing drug. The committee had been asked to give its opinion on the fundamental structure of addiction producing drugs. This raises the question as to whether addiction is related to a special chemical structure. The committee felt that this question could not yet be answered definitely and that in the present state of our knowledge it is impossible to say what part of the molecule of a drug is responsible for its addiction properties.

Medical research on drug addiction. The Commission on Narcotic Drugs wished to know the present position as regards medical research on drug addiction. Exchanges of view within the committee revealed that investigations on this question were still at an initial stage. In fact the only systematic medical researches of which the members of the committee were aware were those being carried out under the auspices of the US Public Health Service in the Research Division of the hospital

FIG 4 EXPERT COMMITTEE ON DRUGS LIABLE TO PRODUCE ADDICTION SECOND SESSION



Left to right (seated round table) Dr R E Carratalá Dr G Joachimoglu Sir Ram N Chopra J R Nicholis Dr N B Eddy (Chairman) B Celinsh (United Nations) Dr P O Wolff (WHO) P Blanc (WHO) J Bouquet

at Lexington Kentucky, and those of certain groups of investigators in South America. Consequently the committee recommended that governments be urged to undertake or amplify medical research on this question

Requests Submitted by Governments

The committee considered the request submitted by certain governments

Ipecopan A request was submitted by the Swiss Government that apecopan a meture of emetine and cephreline hydrobromides with the total alkaloids of opium (in the form of hydrochlorides) should be exempted from strict control under the 1925 Convention. The committee was unable to accept this proposal inasmuch as specopan contrains a morphine salt in an amount equivalent to 37% of anhydrous morphine so that it would be possible to recover the morphine content by simple means

MorpholyLths/Imorphine The French Government requested that a new product morpholylethylmorphine should be included in Group II of the first Article of the 1931 Convention i.e. in the codeine group which is subject to less severe provisions than the other ethers of morphine This request was based on an examination of the pharmacological properties of morpholylethylmorphine which while being three times less toxic than codeine is as active as the latter and superior to it in certain other respects. The committee considered that there were not sufficient data available for the addiction producing properties of morpholylethyl

morphine to be estimated and that this compound was probably con vertible to morphine Furthermore because of its chemical constitution it should be included among the ethers of morphine other than methyl morphine (codeine) and ethylmorphine and be subject to the restrictions applying to this group

Other Opestions

Chronic barbiturate intoxication. In many countries the abuse of barbiturates is creating more or less acute problems. In the USA production of these substances has considerably increased in the course of the last few years in 1948 it exceeded by an appreciable amount the quantity necessary for medical use reaching a level equivalent to about 24 theraneutic doses per head of population. An increasing number of morphine addicts are taking to barbiturates as well. The committee took note of certain experiments which have been carried out in the USA with the object of determining the effects of chronic barbiturate intoxication Prolonged administration—for 92 to 144 days—gave rise to symptoms of intoxication similar to those of alcoholism and induced marked tolerance Sudden withdrawal produced a distinct abstinence syndrome characterized by the disappearance of the signs of intoxication by various physiological effects and by a psychosis resembling alcoholic delirium tremens From these experiments it may be concluded that the barbiturates are liable to produce addiction

2 (1 naphthylmethyl) unida oline Addiction to 2 (1 naphthylmethyl) imidazoline the hydrochloride of which is known as privine or dia colin is spreading in Argentina. The committee felt that this problem was similar to that of the abuse of amphetamine which was raised at the previous session and that for the time being there was no need to recommend integrational measures.

Other substances The committee took note of new information concerning various addiction producing drugs such as certain compounds prepared during research on the synthesis of morphine. It repeated the recommendations formulated at its first session on the dangers of using

keto bemidone and diacetylmorphine (heroin) 3

The report on the second session of the Expert Committee on Drugs Liable to Produce Addiction will be published shortly as World Health Organi ation Technical Report Series no 21

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IMPROVED HYGIENE FOR SEAFARERS

The hygiene of seafarers was the subject of two important meetings of experts which were held recently. From 10 to 20 October 1949, a work ing party of the Expert Committee on Venereal Infections 1 met in Wash ington to study the special problem of control of venereal diseases among seamen The Joint ILO/WHO Committee on the Hygiene of Seafarers which held its first session in Geneva from 12 to 14 December discussed certain of the problems concerning the health of seafarers, such as tuber culosis venereal diseases, the organization of medical examinations prob lems of hospitalization etc

It is of course, difficult to guarantee to seaf irers medical service and social security such as other sections of the population enjoy. Nevertheless the International Labour Organization (ILO) and WHO are making efforts to improve the present situation. Conventions dealing with the medical examination of seafarers food and catering for crews and crew accommodations on board ship have already been drawn up by ILO are still many problems to be solved however before the standards of hygiene of seafarers can be further raised

Tuberculosis

The committee was of the opinion that while a complete medical examination of all seafarers was desirable at the time of first appoint

Membe s

Members ILO

The following were present at the meetings of this working party

Dr W E Coutts Professor of Venereology Chief Department of Social Hygiene Public Health Admin istrat on Sant ago Chile

Dr N Jungalwalla Deputy Public Health Commiss oner Office of Director General of Health Services New Dethi Ind a

Dr T Putkonen Chief State Hospital for Venereal D seases Kumpula (Helsinki) Finland

The following were present at this meeting

O Been President de l'Un on des Ouvriers d'Transport Astiners Belgi m Captain O I Loctoroten Wie Frusden Novey an Shorowert Association Tomberg Norway R Snedden General Manager The Shur ne Federation London Unied Kingdom T Yates General Secretary National Dunion O Seamen London United Kingdom

Ad iser Dr E. L. Caldwell Smith Chief Medical Officer The Shipping Federation London United Kingdom WHO

Dr T B H Anderson Med cal D rector US Public Health Service Med cal Off er in Charge US Marine Hospital Staten Island NY USA

Hospital Staten Island, NY, USA
Dr. K. Pyang, Director General of Public Health, Oslo, Norway (Chalman)
Dr.H. NC, V. Kelaart, D. Islonal Med. al Superintendent of Health, Dept. inment of Medical and Sanitary
Services. Colombo Ceylon.
Dr.H. D. Reid. Chief Division of Q. serantine Immigration M. dical and S. ck. Mainers. Services M. n. try.
of National Health and Welfare. Ottowa. Canada.

Secretaries

Dr G W Miller Assistant to the Director Di isson of the Organ zat on of P bl c Health Services WHO J L Mowat Chief Maritime Section ILO

ment and at regular intervals afterwards all countries did not have facilities for carrying out such examinations. It was therefore decided that this matter should be further examined with a view to evolving a plan later

for a more general physical examination which could be universally applied. The committee also discussed the question of rehabilita tion for seamen who had suffered from tuberculosis It was generally agreed that many sufferers might not afterwards be fit for service at sea, although they might be perfectly fit for other less strenuous occupations The committee noted that vocational midance and training were necessary to ensure that the ex seamen should be fitted for other employment

ON THE HYGIENE OF SEAFARERS

FIG. 8. JOINT HOWHO COMMITTEE

Left to ight O Bécu R Snedden Dr K Evang (Chairman)

Venereal Diseases

The Brussels Agreement of 1924 respecting facilities to be accorded to merchant seamen for the treatment of venereal diseases should be amended owing to its limited scope. It makes no provision for the statis tical and epidemiological evaluation of the problem of venereal diseases among scafarers in addition the scope of these sanitary regulations should be enlarged to include river boatmen. The question of amending the Brussels Agreement is at present under review. However the draft text of the new regulations cannot be submitted before the Expert Committee on International Epidemiology and Quarantine has completed the text of the regulations concerning pestilential diseases. Until the new regulations are established WHO should concentrate on obtaining wider adherence to the Brussels Agreement seeing that it has been ratified by only 21 States.

A plan for revising the individual treatment booklet which was introduced under the Brussels Agreement was proposed by the Wash ington working party. This modified booklet should be sent by WHO to the various national health authorities together with a revised edition of the international list of treatment centres for veneral diseases.

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Treatment

The use of certain repository penicilin preparations would seem to be the best means of rendering syphilitic chances rapidly non infectious and of arresting gonorrhoea. Further research along these lines should be continued for this method would enable seamen to resume duty soon after intensive treatment. At the present time treatment with repository penicillin is carried out only in certain countries, and, before WHO makes any definite recommendations in this matter, it would be useful to study the methods of treatment employed in various centres.

The working party experts emphasized that the use of penicillin on board vessels without any kind of medical control, could not be allowed. This practice leads to considerable loss of epidemiological information and to unfortunate gaps both in the diagnosis and in the post treatment observation of patients.

Port and river projects

The co operative effort in the control of venereal diseases undertaken by the health authorities of the States bordering on the Rhine s was stressed by the Washington working party. This anti-venereal disease activity has aroused such interest that the States on the shores of the Baltic have requested WHOs assistance in setting up in their area a commission based on the same principles.

Dr E H Hermans Medical Director of the Anti Venereal Disease Association Rotterdam submitted a remarkable report at Washington concerning the guiding principles which must govern venereal disease control in sea and river ports. The report deals with the setting up and running of treatment centres laboratory methods treatment on board vessels welfare work anti-venereal disease instruction and propaganda the treatment booklet international exchange of information international co-operation within the various river areas state insurance etc.

Further venereal disease control demonstrations might well be carried out in ports of the Eastern Mediterranean or of South East Asia

Regulations

The Washington working party made special recommendations regarding the free treatment of venereal diseases and the duty incumbent upon doctors and medical institutions of notifying the various national health authorities for statistical purposes of infectious cases of venereal disease such notifications should also include a reference to the source of the infection

In the opinion of the joint committee serological tests should be made compulsory for seamen before they are admitted to the profession

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Organization of Medical Services

The results of the preluminary medical examination and of the sub sequent periodical examinations should be entered on each man s individual medical record possession of which should be compilsory in order to obtain employment. The joint committee however reserved for further consideration the confidential nature of the information concerning the state of health of sailors.

Hospital Facilities

The committee considered the various problems associated with the treatment of the seafarer in foreign ports. This discussion included such questions as rapid transportation from ship to hospital suitable hospital food and the minimum requirements for medical chests on ships

Many countries have an inadequate hospital system with varying standards of medical care. The committee proposed that information should be obtained on hospital facilities and conditions at various ports so that certain hospitals could be recommended as being entirely reliable for the treatment of seafarers.

PREVALENCE OF PLAGUE IN RECENT YEARS

The present decrease in the incidence of pandemic plague as revealed by statistics does not justify the assumption that the disease has lost its power to spread. In fact in certain countries it has been found that the relaxation of control measures during the war and the postwar period has resulted in extensive outbreaks.

It is true that a large number of areas formerly seriously infested for example Europe are today free from the disease. In other areas such as Egypt Libya and Syria which have been particularly subject to pandemics for centuries only sporadic cases now occur. In regions where plague is transmitted by domestic rodents it is now possible to protect human communities from this scourge by the general application of measures for disassection and deratting. Thus in South America it has been proved that by employing DDT and 1080 (sodium fluoracetate) it is possible to wipe out plague in the towns and villages. However while foci of medienci plague still persist the tenuous barrier represented by quarantine measures will not suffice to ensure absolute protection against the risk of infection. Wild rodent plague in particular which is a potential source of

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infection for man continues to spread in South Africa and the Americas and remains a serious menace

The above observations were made by Dr P M Krul, Division of Epidemiology World Health Organization in an article entitled Prevalence of plague in the world in recent years. From this detailed account which includes maps graphs and tables only a few frets relating to the epidemiology etiology and therapeutics of plague will be given

On the basis of the available data it may be stated that bubonic plague

now occurs in an active state only in the following areas

Africa Azores Belgian Congo Kenya Madagascar Senegal South Africa South-West Morocco Tanganyika

Asia Burma China India Indochina Java Thailand

South America Argentina Bolivia Brazil Peru

Africa

It is believed that the history of plague in Egypt is very old since 1899 cases have been reported nearly every year. From 1907 onwards the province of Assyut became an important focus of infection 90% of the cases reported in the country from 1938 to 1940 occurred in this province. During the 1939 and 1940 epidemics it was noticed that the buildings where the first cases of plague occurred had pigeon houses on their roofs. Such buildings are numerous since the inhabitants utilize the pigeon exercit for manure. The connexion between pigeon houses and plague may be explained by the fact that rats frequent such places in search of eggs and young birds and this increases the danger of the transmission of the disease.

Morocco was free from plague from 1936 to 1939. The disease reappeared in the south of the country in 1940 there were two epidemies in the Casablanca area in 1942 and in 1945. Since 1946 no cases of plague have been reported in Morocco. In Algern, the disease was introduced in 1899, but has never become widespread sporadic cases have been observed with slight epidemic outbreaks. The position in Tunism has been similar.

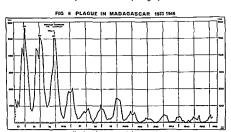
In kenya which is an important East African plague centre there has been a decrease during recent years. The number of cases fell from 1 101 in 1925 to 29 in 1948 with a few epidemic outbreaks in 1941 and 1942. Uganda too has always been considered as a focus of plague from 1939 to 1942 about 300 cases were reported there each year. However a sudden decrease took place in 1943 there being only 19 cases in that year. Plague control undertaken during this period comprised the preventive inoculation of persons especially exposed to the risk of infection, the quarantine of

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plague cases and above all deratting and disinsection. Wild rodent plague is unknown in Uganda. Since 1928 the annual number of cases in the Belgian Congo has not exceeded 73 and since then has decreased still further.

In southern Africa the permanent reservoir of plague is constituted by gerblis which transmit infection to other rodents particularly to multi-mammate mice which in turn transmit it to man. An epizootic is considered responsible for the rapid spread of an epidemic in Ngamiland in October 1944. Plague was introduced into the Union of South Africa at the beginning of the twentieth century and spread from the ports into the rural areas. The cases of plague usually occurred at times when mortality among domestic rodents was high following an epizootic among the gerblis Rodent plague is now endemic throughout the greater part of the Union and is spreading into adjoining territories. The incidence of human plague which attained a maximum in 1935 and 1936 (586 cases in these two years) is now declining.

In Madagascar from 1899 to 1907 plague occurred in small sporadic outbreaks confined to the ports. Since 1921 the disease has become endemue along the high plateau. After having reached a maximum in 1933 with 3887 cases infection has now decreased. The annual number of cases from 1943 to 1948 varied between 184 and 278. The disease is characterized in the island by a high death rate—96 / in 1933 and 78.5 // in 1947. Pre ventive inoculation with Girard's EV living plague vaccine is considered every effective. As shown by Legall the average morbidity rate per 10 000 inhabitants was 25.3 per year before the introduction of inoculation i.e. in the period from 1930 to 1934 with inoculation the annual average rate decreased to 4.6 for the years 1937 to 1941 (see fig. 6).



Number of cases reported per month

America

Plague first appeared in the United States in 1900, in the Chinese quarter of Sin Francisco. Since then and until quite recently a number of plague cases have occurred almost every year in California. In all, 503 cases were reported in the USA between 1900 and 1944. Since 1924 there have been no epidemics of human plague either of urban or of murine origin in the country. The sporadic cases reported were accidentally infected during epizootics among wild rodents. Research carried out in wild rodent plague, in territories representing 40% of the area of the continent has shown that the infection is widely distributed in 15 Western States. In 1945 it spread towards the east reaching kansas and the adjoining area of Nebraska. This ensured advance is a menace, since wild rodent plague may infect the rodents of the great plains the Mississippi valley and the eastern United States. The disease has been found in 40 species of rodents (ground squirrels rats, marmots, mendow mice cotton tail rabbits prairie dogs (cc.) Infected fleas were taken from various rodents especially elipmunks weasels and bridgers.

Brizil was one of the first South American countries to be affected by plague. Since 1899 the disease has spread from the ports of Santos and Rio de Janeiro over a large section of the country where it is now endemic A total of 757 cases was recorded during the years 1946–1947 and 1948. The death rate which is relatively low continues to decrease further following the introduction of sulfonamide therapy it full from 33% in 1934 to 13% in 1948. Recently astructed the vaccine has been used instead of the Haffkine type, of vaccine.

Peru is the South American country which has suffered most from plague. There were nearly 20 000 eases between 1903 and 1929. However there has been a marked decrease since 1930 (2 870 cases between 1940 and 1944. 464 cases between 1945 and 1948).

Asta

The period of maximum spread of plague in India where it was imported from China in 1896 was during the years 1901 to 1907. Since their the incidence has declined. The number of deaths which reached six million for the period 1900 to 1909. Fell to less than 500 000 for the period 1931 to 1939. The position became worse again in 1943 because of the war but in 1945 the mortality was slightly below that in 1942 which had been a minimum. In a report summarized in a preceding number of the Chromich, Sharif described the endenue areas in India, their climatic conditions, and the way in which plague is spread as well as pointing out the part played by the domestic rat in transmitting the disease.

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In Java plague was first reported in 1910 and spread rapidly soon becoming an epidemic and advancing from east to west as the antiplague campaign destroyed the rats in the house. Although it decreased between 1915 and 1918 the incidence began to increase in 1919 and epidemics have occurred every year since then the most serous being in 1933 and 1934 five incidence of the disease then declined again so that in 1940 only 312 cases were reported. This decrease would probably have been more pronounced if the war had not intervened. The incomplete information obtained during recent years does not make it possible to follow the general trend of the disease. However it is known that according to preliminary data 3 422 cases and 3 365 deaths occurred during the first 42 weeks of 1948 which indicates a very considerable plague infection.

In China notification of communicable diseases is not yet practised throughout the country. The reporting of cases of plague although more thoroughly carried out than that for other diseases is limited to some ten provinces. Incidence was very high during the period 1940 to 1947 reaching some 11 000 cases with 6 000 deaths in 1946 and then falling to about 3 000 cases in 1948. The construction of the new Burma road resulted in 1939 in the infection of Yunnan from the adjacent endemic focus in Burma.

The last part of Dr Kaul s article deals with plague in seaports and airports. In the opinion of the author all the large ports might soon have been free from plague if the international situation had remained normal. However because of the war plague reappeared in several Asiatic and African ports. Following the infection of the Suez Canal and North African ports the disease made its appearance in a few European ports in the Mediterranean since 1946 however no cases have been reported there.

MISSION TO HAITI

A WHO expert in tropical hygiene Dr A Kundig was one of a group of United Nations experts sent to the Republic of Hitti at the request of its government to study the possibilities of economic and social development. This request was made in accordance with the resolution passed by the Economic and Social Council on 28 March 1947 to aid govern ments seeking technical advice a team of experts would study specific problems on the spot and would recommend appropriate solutions for them

Thus the mission to Haiti was entrusted first and foremost with the study of the problems of and the conditions affecting the economic development of Haiti primarily in the fields of agriculture industry and related activities having regard to the inter related economic and social

problems bearing in particular on the improvement of health and education. In the light of this study the mission was "to formulate proposals as to practicable measures and to appraise the needs implied by the measures proposed."

The group of experts was composed of representatives of the United Nations the International Monetary Fund FAO UNESCO and WHO

An undertaking of this nature constitutes a concrete example of international co operation in technical assistance and, in the words of Mr Triggle Lie Secretary General of the United Nations 'This Mission is a precursor of the ampler efforts which the international organizations concerned will be enabled to display in realization of the bold programme of technical assistance to underdeveloped countries

In the introduction to the report submitted by the mission the experts set forth the essential facts of the present situation in Haiti and make recommendations of a general nature

The report itself consists of two parts. In the first demographic, educational, and health problems affecting the economic position of Haiti are examined. In the second transport production commercial, and financial problems are studied. Recommendations are made in connexion with each particular problem.

The population of Haiti which was estimated at 3 000 000 in 1948 is essentially agricultural. There is practically no medical care for the rural inhabitants who represent about four fifths of the total population. In fact of 292 physicians practising at the end of 1948, there were only 26 to look after the rural population of more than 2,500,000. There is no doubt that this situation constitutes the principal obstacle to the economic development of Haiti. The urban population is better provided for, as regards both hospital facilities and medical personnel.

The public health organization consists of a central department and provincial administrators. The central department which has a director general at its head comprises 6 technical and administrative divisions dealing with the following problems epidemiology and prevention of epidemies malaria vital statistics quarantine, hospitals and clinics and dispensaries in the rural areas. The Director General is also responsible for the 11 provincial districts where the local administrator also acts as physician in-charge of the district hospital. In general, the physician in-charge of these hospitals are surgeons and have no training in rural health matters. Moreover, their work is hampered by lack of transport and because of inadequate remuneration, they are unable to devote them selves entirely to their official duties. A number of the 105 rural clinics

United Nations (1949) Mission to Halil Report of the U ited Nation Mission of T ch I al Assistance to the Republic of Halil Lake Success NY (1941) IB -1, p. 1
United Nations (1949) Mission to Halil Lake Success NY p. ii

and dispensaries are closed because of financial and other difficulties furthermore the staff in these establishments is unqualified

Rural housing is unhealthy the people make constant use of surface water latrines and other sanitary installations are lacking Demographic and nosologic statistics are distinctly inadequate. Infectious diseases are believed to cause 40 /a of deaths of which 46% are attributed to tuber culosis However these statistics are based only on incomplete data The prevalent diseases are reported to be yaws malaria tuberculosis and to a certain extent ankylostomiasis At least 85% of the inhabitants of certain rural areas are reported to suffer from yaws

Malaria is probably very widespread but statistical data which are indispensable for suggesting appropriate measures are lacking. The malaria vectors are reported to be Anopheles albimanus. A grabhamii A vestitipermis and A crucians Drainage projects were carried out between 1942 and 1946 under the auspices of the Rockefeller Foundation but lack of maintenance has practically obliterated these efforts

One of the factors causing the spread of tuberculosis is overcrowding in hovels particularly in the slum quarters of Port au Prince The incidence of this disease in rural areas is unknown. There is only one sanatorium in Haiti that at Port au Prince The hospital services for contagious cases even at the General Hospital of Port au Prince are inadequate and

poorly organized

The mission formulated recommendations aiming above all at the establishment of a satisfactory public health organization in the rural areas. This would require the health administrators of the rural districts to take technical training in public health and to devote the whole of their time to the rural health services. It would be essential therefore to remu nerate them adequately and to ensure for them the necessary m ans of transport

Before tackling the practical problems of malaria tuberculosis and ankylostomiasis control it is advisable to survey thoroughly the incidence of these diseases in rural areas It would also be very important to maintain the sanitary improvements already achieved and the installations which have already been constructed for malaria control

The mission also recommended either that the project for the construc tion of a new hospital at Bel Air (Port au Prince) be reconsidered or that a more economical solution such as enlarging the General Hospital be adopted

Yaws was made the object of special recommendations since the disablement caused by this disease seriously impairs capacity for work The mission suggested that the campaign against yaws be organized on a nation wide scale and that efforts be concentrated over a period of two to three years For this purpose it would be necessary to provide the rural clinics and dispensaries with the drugs necessary for the treatment of yaws Penicilia in oil and beeswax is the drug of choice (2 injections administered at an interval of from 10 to 12 hours). The campaign could be successfully carried out by 12 physicians, each assisted by 5 medical aides and their practice would cover the rural clinics scattered throughout the country. Each physician would direct 5 rural clinics.

The cost of such a campaign would be very high but its influence on the economic development of the country would be considerable

Reports from WHO Fellows

Many of the letters and reports received from WHO Fellows have been of such interest that they deserve to be read by a wider public. They demonstrate more vividly than a series of facts and figures both the character of the fellowship programme and the response of the Fellows themselves Selections from these reports have therefore been published from time to time but it must be emphasized that the opinions expressed are those of the Fellows

Tuberculosis Control

Dr M C Verghese Chief Tuberculosis Officer Trichus State of Trainancore and Cochin (India) was awarded a WHO fellowship in order to study methods for the precipiton and treatment of tuberculosis in Western Europe and North America Between Edvinary and October 1949 he travelled in Great Britain Denmark Sweden Norway the USA Canada Trance Switseland and Italy visiting public health administrations schools research centres and hospitals and sanatoria

Dr Verghese noted that tuberculosis control was one of the major preoccupations of the health authorities of all the countries he visited indeed as a result of the second World War tuberculosis morbidity and mortality have increased almost everywhere

In all these countries voluntary regardations are co-operating with governments in tuberculosis control their efforts being concentrated on prevention aspects propaganda education and compilation and distribution of information etc. In Italy the National Antituberculosis Federation is also responsible for the medical and scientific aspects of the campulary against the disease

The development of these voluntary bodies is an indication of the growing number of persons interested in the antituberculosis programmers. Thus one of the finest children's sanatoria in Denmark built in 1999 is financed solely by the sale of special tuberculosis stamps every Christmas. Denmark is moreover the country with the world's lowest uberculosis mortality rate. Progress in antituberculosis work dates from 1901 with the formation of the National Society for the Prevention of Tuberculosis since 1905 the State has supported campaigns organized by this voluntary body through an Act providing State subsidies for tuberculosis hospitals.

It is of vital importance first for studying and then for checking the ravages of tuber culous to be in possession of as accurate statistical data as possible. In all the countries visited by Dr Verghese he found that registration and statistical services exist which enable, close attention to be given to tuberculosis morbidity and mortality figures as well as to the results of preventive measures and of treatment. In Denmark death certificates from physicians are sent before they are finally recorded to the Central Tuber culosis Dispensary for verification of the diagnosis. In Rome the Istituto Carlo Forlanin has made a series of comparative statistical surveys of the tuberculosis problem in Italy and in valous other countries.

Dr Verghese emphasized that in all the countress he visited tuberculosis was a compulsorily notifiable disease and that steps were taken everywhere to isolate cases and give them hospital treatment. Several countres have undertaken mass radiography campusing among whole sections of their populations. In certain parts of Great Britan notably Edinburgh apprentices undergo clinical and x-ray examinations similar examinations are made of precannel women attending antenstated clinics.

In Western Europe and in the USA, the number of hospital beds available varies from one to three per death due to tuberculosis but in view of the growing number of cases which mass radiography daily reveals there is a definite shortage of beds. In certain States in the USA it is compulsorly by law for the families of persons suffering from tuberculosis either to hospitalize the patients or to take in their own homes a sense of specific precautions designed to prevent infection. In England the number of hospital beds for tuberculosis cases is adequate but there is a lack of trained nursing staff. Hence home medical treatment is practised.

Dr Verghese observed that medical authorities were also concerned with the control of non pulmonary tuberculosis a great many cases of which are due to infection with the bowne type of tubercle bacilius. The recent decline in the morbidity rate is certainly the result of increased use of tubercle free milk. In Denmark the law in this respect is very drastic any cow whose reaction to tuberculin is positive must be slaughtered.

The antituberculous services of vanous countries are devoting more and more of their attention to the treatment of children the principal task of health visitors is to see that children and adolescents from infected homes are regularly examined and retard in France about 4000 beds are available for children a three fold organization having been set up aeras for the children of tuberculous parents preventoria for those only slightly affected by the disease and sanatoria for serious cases.

Chest surgery is everywhere making rapid progress thanks to modern methods of anaesthesia and to blood transfusion. In the USA many of the surgical services possess a research centre and a physiotherapy clinic.

A large part of Dr Verghees e report is devoted to an examination of the various social security and health insurance systems in operation. Special insurance schemes for persons suffering from tuberculosis have been introduced in Italy and Switzerland. In France social security is the responsibility of the State. In the Scandinavan countries especially in Demmark practically all the populations belong to state supported private insurance companies. In Great Britain the National Health Service Act guarantees fore treatment to all platients. In addition to the official and private organizations design with the treatment of tuberculosis the existence of voluntary bodies makes possible the follow up of patients both during and after treatment.

BCG vaccination is used on a larger scale in France and in the Scandinavian countries than elsewhere. The writer of the report stresses that in Denmark the use of BCG particularly since 1940 has brought about a marked d cline in the number of cases of tubercular meningitis observed. In Norway BCG vaccination is compulsory.

Dr Verghese concludes his report with a comparison between the achievements observed in the West and the antituberculosis campaign still in its infancy in his own country

Notes and News

Practice of Medicine by Foreign Physicians

During the course of the last year WHO has received numerous inquiries from governments organizations and individuals recarding the recognition of foreign medical diplomas by various countries.

In the wolf the considerable value which the establishment of international reciprocity in the public health field would offer the Director General of WHO has sent a circular letter to the various governments asking them to forward to him a copy of all legislation in force relating to the conditions under which foreign physicians are permitted to practis, or teach medicine or to engine in any profession of a medical nature in a public or private capacity.

Regional Organization for Europe

During its fourth session the WHO Executive Board had authorized the Director General to establish a regional organization for Europe, once the consent of a myjority of the Member States of the region had been obtained. The opinion of the 27 Member States concerned was requested on several occasions by the Director General. 21 replies have been received of whis only 15 are in favour of creating this new regional organization of WHO. Although the majority of the replies received from the Governments consulted were favourable, the Evecutive Board was impressed during its fifth session by the appreciable number of European states which either were not in favour of the proposed organization or had not made their views known. Consequently, the Board decided, that it was not yet advisable to take any steps in this connexion and that the matter should be referred to the Third World Health Assembly.

Daily Radio-broadcast of Epidemiological Bulletins

The text of the WHO epidemiological bulletins broadcast from the Genève-Prancins Station since January 1949 is completely renewed every Friday and repeated on the other days of the week.

However in order not to delay the transmission of epidemiological news which may reach WHO at any time supplimentary information is included at the beginning of the daily broad ast. This latest news is followed by the words. End of litest information so that health administrations need listen to the radio bulletins only as long as is absolutely necessary.

When the text of the daily bulletin is the same as on the preceding day the trans mission is preceded by the word repetition

Roumania Decides to Withdraw from WHO

In a telegram dated 20 February 1950 the Roumanian Minister of Health made known to the Director General of WHO his Government's decision to withdraw from the Organization

In this telegram the Roumanian Minister of Health criticizes the activity of WHO In particular he states that in the opinion of his Government. The World Health Organization has not taken concrete measures to early on successfully the fight for

¹ Chr n B Id Hith Org 1949 3 243 Ch on Borld Hith Org 1949 3 35 9., 43

preventing and combating disease on the international plane and has not contributed in a satisfactory manner to the dissemination of scientific progress in medicine and that it. has been transformed into a bureaucratic institution which does not correspond to the tasks assigned it by its Constitution.

The Member States of WHO have been informed of the decision of the Roumanian Government by a circular letter from the Director General

Roumania is the fifth State which has announced its intention to withdraw from the Organization the same decision was reached by the USSR the Byelorussian SSR and the Ukrainian SSR in February 1949 ³ and by Bulgaria in November 1949 ⁴

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Views on WHO

International Co-operation in Malaria Control

In a recent article in the Archives de Médeeme Sociale Paris (1949 5 199) entitled An enemy malaria A weapon international health co-operation Hélène Rosebery deals with the problem of the control of malaria on an international scale. She writes

Several programmes of malaria control were undertaken in 1949 on a co operative basis. The national health authorities of various countries took part in them with the assistance of the World Health Organization (WHO) the United Nations International Children's Emergency Fund (UNICEF) and the Food and Agriculture Organization (FAO)

But there are still no international quarantine regulations against malaria. Two great agencies of the United Nations the World Health Organization and the International Civil Aviation Organization have collaborated in taking the necessary precautions.

In spite of modern methods of malaria control and the suppression of the disease in a small number of countries millions of daths could still be avoided. Further more the hundreds of millions of cases reduce the potential of workers. In addition any kind of immigration into vast areas whose natural wealth could be developed if they were not subject to the

ravages of malaria is often rendered impossible

It is therefore a question not merely of saving human life of reducing mor bidity and of raising the standard of living in the countries affected but also of increasing the world is supply of foodstuffs. At a time when the world is population is increasing at such a tremendous rate reaching 25 000 000 births a year it is important to raise the level of production accordingly.

This article also reviews the programmes which have been carried out and the results obtained in various countries and briefly outlines WHO's plans for malaria control in 1950

Priorities for International Medicine

A leading article published in *Discovery*-London (1949 10 237) underlines the significance of co operation of individuals everywhere in campaigns against disease

The wise and beneficent plans of the second World Health Assembly will not succeed unless people all over the world do their bit in the worldwide fight against the major menaces to the health of the human species

But how are we all to do our bit? We are not experts and we do not know what the most serious world diseases are

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nor how to combat them Nobody realises this better than WHO and its educational plans are a prominent feature of the programme discussed in Rome These plans are based on the view that it is better to show people how to get healthy and how to prevent the occurrence of disease than to put up in each country expensive safeguards against the diseases prevalent in each locality. These safe guards will be needed of course but if people are taught more about the causes of disease and how each disease spreads and if at the same time vigorous efforts are made to eradicate reservoirs of the major diseases of the world, there will be less and less need for heavy capital expenditure on faver hospitals, quarantine stations and similar weapons now em played

It would be hard to find aims more beneficent and more urgent than those embodied in the Assembly's programme Its plans if they can be brought to success will have incalculable effects upon the future of a world which is in spite of political delays inevitably becoming a unity They will increase the world's food supplies substitute happy self supporting people for the millions who are now badly nourished ill and unhappily depen dent But the task of the WHO is not an easy one It will not be done unkess ordinary human beings all over the world are willing to help by learning how to keep fit how to avoid infection with disease and how to help the other fellow to work to the same end

Support of WHO Programme

Dr J R Rees President of the World Federation for Mental Health in emphasizes the importance of mental health in an article published in the Bulletin of the World Federation for Mental Health (1949 4 17)

The fact that there was agreement from the 70 nations present on the necessity and indeed the urgency of a mental health programme is significant The delegate from India said for example that in spite of the crying need for elementary public health measures in Asia the mental health programme would rank in importance there with plans for the control of malaria and epidemic diseases

That it may not be possible to imple ment considerable parts of the suggested programme through lack of funds throws still further responsibility on the World Federation for Mental Health Not only is it our responsibility to discuss persuade and shape public opinion with regard to support of the WHO programme but further it is quite clear that if we can once meet our own essential administrative costs as a Federation and can then interest large donors in the carrying out of these vitally important survey and educational activities in the various countries of the world we as a Federation might be able to provide some of the personnel and costs involved in carrying out these projects. This is a point which looms very large in my mind. The established Foundations such as the Rockefeller are likely to co operate with and support the health plan of WHO in many ways Have we not thus a clear case for building up a foundation specifically concerned with human relations and mental health?

One was constantly reminded during the Assembly that just as in a war in the face of a common enemy the aggressions and tensions between groups in any country recede into the background so here in face of the common challenge of ill health and inefficiency throughout the world the personal cultural and ideological tensions disappeared The World Health Organization has certainly a greater opportunity for co-operative work than any other agency of U N It was fascinat ing to see how tensions which had begun to manifest themselves were in nearly every case diminished or resolved and one could not fail to realise not merely through the multitude of new contacts made personally but from the whole tone and spirit of the Assembly how big a contribution is possible along the lines of human relationships in the international field

Mental Health Programme

With reference to the adoption of a mental health programme by the World Health Assembly the August number of the Presse Medicale Paris (1949 57 784) states

Problems of mental health play a part in almost all phases of medicine. The World Health Organization is therefore concerned with mental health when it is dealing with abertations such as alcoholism and drug addiction. It is equally concerned with mental health when it draw up programmes for the control of tuber culosis venereal diseases and malaria.

The subject has not in fact been investigated to any great extent. Thus far only one survey on psychoneuroses has been carried out in an industrial commun ity in accordance with practical statistical methods. This survey revealed that neuropathic disorders caused greater loss of working hours than the common cold One of the immediate tasks of the World Health Organization therefore is to collect complete information concerning the incidence and effects of mental ill health in a great number of fields. Another important task is to examine the present possibilities of work in mental health The World Health Organization will also favour the application of improved methods for the treatment and prevention of nervous disorders and will seek to raise the standard of technical education in numerous professions where principles of mental health have an important part to play *

Positive Achievements of WHO

An editorial in the issue for October 1949 of *Hospital* London (1949 45 594) comments on the first report of the Director General of WHO

From this first report it would appear that WHO has some positive achievements and has not allowed its deliberations to RUN out in the fine sands of argument counter argument and constitution making which one associates so much with international co operation at the present time. Certainly there is no lack of work to be done by WHO not only in countering immediate difficulties but in raising general health standards throughout the world and although a creditable start appears to have been made it will be necessary to await the results of a rather longer period of working before it can be said whether these are simply the first fruits of early enthusiasm or are an indication of something of lasting importance

Banner with a Strange Device

An editional in a recent issue of the New England Journal of Medicine Boston Mass (1949 241 795) comments on international co-operation in health matters

Among the activities associated with the United Nations the World Health Organization stands out as one of the most promising. Its program is reasonable and reminiscent of the good old days before 1914, when the civilized nations insited in all sorts of mutually beneficial activities such as uniform postal rates convright laws weather reports public health regulations the gold standard and hydrographic surveys and global war had not been heard of since Waterloo except in the nightmares of H G Wells If all nations could really agree on the importance of achieving world health most other problems would be solved for nothing is

Medical knowledge has kept pace with the technical advances that have marked a century of progress. This is what the chief of the American delegation to the second World Health Assembly held in Rome from June 13 to July 2 may have had in mind when he declared in his report. Unless we move forward to improve the health of mankind it is impossible for mankind to move forward to improve the vector of the mankind to move forward. The statement suggests a pleasing slogan morposible for mankind to move forward the statement suggests a pleasing slogan for the statement suggests a pleasing slogan the statement suggests a pleasing slogan about the statement suggests and the statement suggests and statement

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Another Step to Better World Health

Dr k. Eving Director General of Public Health Norway President of the Second World Health Assembly describes the new programme of WHO in in article, which appeared in the United National Bulletin Lake Success N Y (1949 7 106). The author outlines the mun achievements of the Health Assembly, beld last summer in Rome and then warns that there is also a neeative side of the balance.

Against a truly impressive list of positive results achieved by the Assembly we must place the necative side of the balance —namely our inability fully to convince our governments of the importance of the aims of WHO and of the vitil role which the organization can play in improving health conditions in our individual counties is well as in the world generally. The effects of this failure on our part were evident during the discussion of the funds which were to be placed at th disposal of WHO to enable it to carry out its tasks in the years to come. The lesson we karned at Rome is two-fold. First, WHO must do all in its power to fulbil the aim laid down in its Constitution of strengthening national health administra tions so that they will carry more weight with their own governments. Furthermore -and this is even more important-each of us going back to his own country will have to use his imagination and his courage to present to his people the world's health problems in a simple but forceful way. It must be made clear to all nations that while the knowledge and the techmoues are available to eliminate many or even most of the ills of man, there are no short cuts to improved health. Indeed, to be established on a world wide basis health like peace calls for sacrifice on the part of every country and every individual in terms of money work and prestiee

CORRIGENDUM

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In the list of delegates and observers present at the second session of the WHO Eastern Mediterranean Regional Committee Dr H M Elliott and Dr I Anis were given as delegates of the 'inglo Egoptian Sudan Dr Elliott and Dr Anis were in fact adviser both to the Egoptian and United kinedom delegations and at the meetings acted as advisers alternately to both these delegation.

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CHRONICLE THE WORLD HEALTH ORGANIZATION

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RECENT AND FORTHCOMING MEETINGS

1950

6-30 January

WHO Executive Board Standing Committee on Admi-

nistration and Finance, Geneva

9 14 January WHO Expert Committee on Druss Liable to Produce Addic-

tion second session Geneva

16 January 2 February WHO Executive Board fifth session Geneva

6-10 February WHO Expert Committee on Professional and Technical Education of Medical and Auxiliary Personnel first session.

Geneva

20-26 February WHO Expert Committee on Nursing first session Geneva

27 February 3 March WHO Expert Committee on Health Statistics Subcommittee

on the Definition of Stillbirth and Abortion Paris
6-10 March WHO Expert Committee on Health Statistics Subcommittee

on Cancer Registration Paris

11 15 April WHO Expert Committee on Antibiotics first session Gereva

11 15 April WHO Expert Commuttee on Antibotics first session Gerea 11 15 April WHO Expert Commutee on Health Statistics Subcommittee on Hospital Statistics Geneva

17 April tentatively WHO Expert Group Meeting on Prematurity Geneva

17 22 April WHO Expert Commuttee on Rabies first session General 18 22 April tentatively WHO Expert Committee on Health Statistics second ses

sion Geneva

20-29 April WHO Expert Committee on the Unification of Pharma copocias sixth session New York

8 May Third World Health Assembly Geneva

June WHO Executive Board, sixth session Geneva

August WHO Expert Group Meeting on School Health Geneva

September WHO Regional Committee for the Eastern Mediterranean

third session Ankara

September WHO Expert Committee on Tuberculosis fifth ession
September WHO Regional Committee for South East Asia third es

WHO Regional Committee for South East Asia third ses

FIFTH SESSION OF THE EXECUTIVE BOARD

At its fifth session held in Geneva from 16 January to 2 February 1950 the Executive Board dealt with important administrative and financial problems which had previously been referred for study to some of its members acting as a Standing Committee on Administration and Finance The conclusions and recommendations of this committee are summarized in another article appearing in this number of the Chronicle 1

The Executive Board also considered as prescribed by the Constitution the fundamental problem of a general programme of work covering a specific period and transmitted to the Third World Health Assembly its recommendations on this matter. Finally the Board examined the reports of expert committees considered various technical problems and took note of reports concerning the relations between WHO and the United Nations the specialized agencies and other international organizations.

General Programme of Work for a Specific Period

The Executive Board at its fourth session had requested that the WHO programme of work which had originally been designed to cover a period of ten years like that of the other specialized agencies should be limited to a maximum of five years. This programme was to be a sort of half way house between the detailed annual programme and the long term programme comprising all the constitutional activities of WHO. Members of the Executive Board had been invited to communicate their views on the length of the period to be selected and on the composition of the programme. Their replies analysed and summarized by the Secretariat served as a basis for the discussion which developed during that session

In spite of some differences of view a general consensus of opinion developed within the Executive Board which enabled definite conclusions to be reached constituting a decision regarding the planning of WHO work during the next few years

Length of period

The programme will be set for a period of four years (1952 1955). This period represents a compromise between the wiews of some members of the Board who were in favour of three years and of others who advocated a six year period.

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Annual revision of the progrumme would ensure the necessary flexibility in view of the rapidity of the evolution of science, the possible appearance of new methods of treatment and the urgency which a particular problem might suddenly uttain

The Executive Board formulated certain general principles regarding programmes of work. The Director General will have the responsibility of adopting effective methods for implementing programmes and it will be the task of the regional committees to draw up a four year programme for each area along the lines laid down, the Executive Board proposed to review the programmes of these committees at its seventh session.

General principles and selection of activities

The general view of members of the Executive Board was that the work of WHO must be based upon the principle of decentralization, carried out through the regional organizations. It is desirable that all countries including the non-self governing and trusteeship territories should participate in the work of the Organization.

Turning next to the problem of the selection of the activities to be included in WHO programmes of work the Executive Board proposed certain criteria

- (1) Account must first of all be taken of the possibilities of the programmes being critical out by those governments seeking the assistance of WHO. The countries concerned must be able to participate in them both materially and morally and be in a position to continue the work when WHO assistance ceases. Only those techniques which have passed the experimental stage will be applied arrespective of the wishes of individual States on this point.
- (2) Preference should be given to such activities as are likely to benefit the largest possible number of Member States either directly or indirectly It will increasingly be the responsibility of the regional committees in the future to report matters of general interest to headquarters and to draw the attention of governments to problems of purely local significance
- (3) During the first four year period the activities selected should be such that the results may be rapidly appreciated and the programmes brought to a successful conclusion by the governments concerned. Under this heading for example come projects which will lead to a considerable decrease in the number of deaths from malaria or venereal diseases or to a marked reduction in infant mortality in a given area. It is to be hoped that with growing confidence in WHO this criterion will become less important for subsequent periods of activity
- (4) The limited funds available to WHO should be devoted to those activities which seem likely to promise the most fruitful results. Activities

- should be selected which may give maximum results for the minimum outlay
- (5) Preference should be given to programmes for the carrying out of which qualified personnel are available

Main activities

The Executive Board classified the various general activities of WHO under certain headings

Traditional international services (1) The setting up of a health statistical service. In co-operation with the corresponding services of various countries WHO supplies all governments with statistical information on different subjects. The survey of statistical problems recommended to governments by the Conference for the Sixth Decennal Revision of the International Lists of Diseases and Causes of Death can be cited as an example of such co-operation.

- (2) Collection and distribution of epidemiological information. The epidemiological intelligence services in co-operation with the regional offices are engaged in developing a simple and efficient system of distribution.
- (3) International health regulations and quarantine The object of these various measures is to prevent the spread of disease with the minimum of interference with trade and travel. International health regulations which will take account of recent scientific and technical progress and which will replace the conventions at present inforce aren the course of preparation.
- (4) Establishment of international standards for biological and phar maceutical products
 - (5) Unification of pharmacopoeias
 - (6) Standardization of international medical nomenclatures
- (7) Co ordination and encouragement of research in public health in co operation with national institutions
- (8) Editorial publications and reference services particularly for the use of the national health authorities

To these traditional services should be added the adoption of nutritional standards standardization of certain laboratory tests etc

Serices in co operation with other institutions. In accordance with the obligations of its own Constitution and with those assigned to it by the Charter of the United Nations WHO is bound to give advice to United Nations bodies such as the Economic and Social Council and its various commissions (Commission on Human Repts Social Commission Com-

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mission on Narcotte Drugs 3 among others), the Trustetship Council, etc Such co operation is in accord with the traditional policy of WHO, which aims to collaborate closely with the virious United Nations services and with the other specialized needees

Services connected with professional education The world scarcity of medical and auxiliary personnel has made the problem of professional education one of the major preoccupations of the services concerned. It is essential for certain standards to be established to which all countries should attempt to conform concerning the training of doctors and other health workers Not only do standards in medical education need to be raised in many countries, but there should be a re orientation of the studies of all those connected with health services to give increased emphasis to the modern aspects of public health and of preventive and social medicine Tremendous advances have been made in medical science, but the number of persons benefiting from them is extremely small. This disproportion can be reduced only by the expansion and adaptation of national health programmes Each country should possess at least a nucleus of persons acquainted with modern developments and the latest techniques and capable of training colleagues, in order to help the community to benefit from the achievements of science

The members of the Executive Board stressed the present importance of this problem. They were of the opinion that WHO could make a contribution to the development of professional training by granting fillowships and facilitating access to professional instruction. It would be possible to judge the results of such WHO and at the end of the first four year period.

Technical aid to governments. The services under this heading must be regarded as falling essentially within the scope of the regional organizations. Hence the Executive Board did not feel that it was called upon to make any detailed recommendations for the programme of such work for 1952 1953. It indicated however the ends to which WHO's efforts should be directed the establishment in each Member State of a central health service with an efficient full time staff—control of communicable diseases, particularly of malaria tuberculosis, and venereal diseases while giving consideration also to typhus, plague cholera, smallpox, bilharzasis and leprosy, demonstration of control methods in specially selected areas, establishment in each country of a health statistical service, based on standardized methods enabling comparisons to be made on an international scale, provision of means of obtaining medical supplies improvement of economic and social conditions which are closely allied to health (maternal and child health nutrition environmental sanitation, mental health).

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See Chron 11 o ld Hith O g 1950 4 79

Reports of Expert Committees

The Executive Board examined the reports of several expert committees and authorized their publication ⁵ The following are the committees and study groups concerned

Expert Committee on Drugs Liable to Produce Addiction (second session) 6

Expert Committee on Plague (first session) 7

Expert Committee on the Unification of Pharmacopoeias (fifth session) 8

Joint FAO/WHO Expert Committee on Nutrition (first session) 9

Joint OHP/WHO Study Group on Cholera (third session) 10

The Board devoted more time to the consideration of certain other reports and the comments which it made on them are briefly summarized below

Expert Committee on Malaria 11

After stressing the particular value of the report on the third session of this committee the Executive Board made comments on various points. It approved the recommendations to governments 12 formulated by the committee at the request of the Board These recommendations draw the attention of governments to the necessity of setting up a permanent antimalarial service provided with a specialized staff they recall the effectiveness and success of spraying with residual insecticides and stress the part which chemotherapy can still play in controlling epidemics They mention also the fact that mass chemoprophylaxis has virtually been abandoned in areas where mosquito control has been systematically under taken Other recommendations concern the precautions to be taken to prevent malaria in connexion with various public works such as irrigation construction of roads and houses cultivation of land etc. When such works are to be carried out a malariologist should be consulted so that they will not help as has happened in the past to spread malaria through the creation of new larval breeding places. At the end of these recommenda tions the committee refers to the assistance which WHO is able to give to governments by sending experts granting fellowships assisting schools of malariology etc

The Executive Board requested that these recommendations should be sent to the governments of all countries where malaria constitutes a public health problem and that the other conclusions of the report should

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also be brought to their attention. The particular conclusions referred to are those showing that the respective advantages and disadvantages of spraying with residual insecticides and of eradication (meaning essentially larval control) should be weighed before antimalarial emphagins are statted on the other hand, larval control should be abandoned in rural areas where residual insecticides have given good results when systematically applied

Regarding the long term objectives the Executive Board decided that the antimalarial campaign should have the highest priority in the technical assistance programmes for underdeveloped areas. WHO co-operation with the Food and Agriculture Organization (FAO) for assisting countries where malaria interferes with agricultural and economic development should be intensified. Regarding the supply of antimalarial products the Board requested that WHO should continue its efforts to Licilitate—through the Economic and Social Council of the United Nations—the provision of antimalarial products to certain States and that it should study in conjunction with UNICEF and the Economic and Social Council, what assist ance could be given to countries not producing such products so that they could start manufacturing insecticides in their own territory. The Board further recommended that an antimalaria conference in tropical Africa should be called during 1950 if adequate preparation has been made.

Expert Committee on Tuberculosis 13

In its observations on the report of the fourth session of this committee the Executive Board referred particularly to the annex dealing with suggestions for the control of tuberculosis in countries with undeveloped or non existent programmes. It suggesting that health administrations should give the widest publicity to this document. The Board stressed that BCG vaccination campaigns can be fully effective only if they are carried out as part of a general programme of tuberculosis control mass radiological examinations are justified only when facilities for treating cases discovered by this method exist. The Board noted with satisfaction the attention given by the committee to the provision of inexpensive treatment centres for tuberculous patients. This solution would enable the scarcity of beds to be remedied in places where it is impossible to erect more permanent structures.

Expert Committee on Venereal Infections

The Executive Board examined in addition to the report on the third session of this committee 15 that of the Subcommittee on Serology and Laboratory Aspects 16 and that of the WHO Syphilis Study Commission 17

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¹ Ch o 13 rld Hith Org 1950 4 41 Ch on 13 o 14 Hith Org 1950 4 67

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Its attention was directed to the epidemiological aspects of control particularly those related to seafarers. The Board called the attention of govern ments to the desirability of the adherence of a large number of countries to the Brussels Agreement and of active participation in the venereal disease control programmes in the larger ports. It gave its full support to the syphilis and yaws control projects in Haiti 10 and to the bejel-control project in the Eastern Mediterranean Resion.

The Board stressed that the present methods ensure rapid ambulatory reatment of cases detected by mass serological examinations. There will thus be no fear of the difficulties which were frequently encountered when dealing with tuberculosis owing to the impossibility of treating all the cases disclosed by the radiological examinations.

The Board requested the Director General to call the attention of governments to two matters the value of the international serological conference planned for 1951 or 1952 and the necessity for each government to have a national laboratory for carrying on the work of standardizing serological tests

Joint OIHP/WHO Study Group on African Schistosomiasis 19

The recommendations which the joint study group formulated at its first session regarding the investigations to be carried out as to the distribution and incidence of bilibarizasis (schistosomiasis) were approved by the Executive Board which instructed the Director General to take the neces sary steps to implement them The Board considered the problem of irrigation in connection with the prevention of bilibarizasis the Board wished governments to be informed of the dangers entailed by the launching of new irrigation schemes in areas where the disease is present. Dr de Paula Souza presented a paper concerning Bilharia manson in Brazil the research that should be undertaken or expanded and the education of the public about this disease. Dr Villarama described the seriousness of the situation in the Philipoines.

Expert Committee on Environmental Sanitation 20

The Executive Board made several reservations concerning certain conclusions and statements appearing in the report on the first session of this committee. In particular the Board considered that undue emphasis had been placed on the technical aspect of the problem—that is to say on saintary engineering—at the expense of saintation problems proper Regarding the training of personnel members of the Board were of the

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See Ch 35 Id Hith Og 1950 4 6
See Ch 35 Id Hith Og 1950 4 12

also be brought to their attention. The particular conclusions referred to are those showing that the respective advantages and disadvantages of spraying with residual insecticides and of eridication (meaning essentially larval control) should be weighed before intimalarial campaigns are started on the other hand Irival control should be abandoned in rural areas where residual insecticides have given good results when systematically applied

Regarding the long term objectives, the Executive Board decided that the antimalirial campaign should have the highest priority in the technical assistance programmes for underdeveloped areas. WHO co operation with the Food and Agriculture Organization (FAO) for assisting countries where malaria interferes with agricultural and economic development should be intensified. Regarding the supply of intimalarial products the Board requested that WHO should continue its efforts to fricilitate—through the Economic and Social Council of the United Nations—the provision of antimalarial products to certain States and that it should study in conjunction with UNICEF and the Economic and Social Council what assist ance could be given to countries not producing such products so that they could start manufacturing insecticides in their own territory. The Board further recommended that an antimalarial conference in tropical Africal should be called during 1950 if adequate preparation has been made.

Expert Committee on Tuberculosis 13

In its observations on the report of the fourth session of this committee the Executive Board referred particularly to the annex dealing with sugges tons for the control of tuberculosis in countries with undeveloped or non existent programmes , 14 suggesting that health administrations should give the widest publicity to this document. The Board stressed that BCG vaccination campaigns can be fully effective only if they are carried out in part of a general programme of tuberculosis control, mass radiological examinations are justified only when facilities for treating cases discovered by this method exist. The Board noted with satisfaction the attention given by the committee to the provision of inexpensive treatment centres for tuberculous patients. This solution would enable the scarcity of beds to be remedied in places where it is impossible to erect more permanent structures.

Expert Committee on Venereal Infections

The Executive Board examined in addition to the report on the third session of this committee 15 that of the Subcommittee on Serology and Laboratory Aspects 16 and that of the WHO Syphilis Study Commission 17

See Chron Wo ld Hith O g 1949 3 25 Ch on World Hith O g 1949 3 256

Chron Borll Hith Og 1950 4 41 Chron Bold Hith Og 1950 4 67

Chron World Hith O g 1950 4 35

whole matter of quarantine measures had been considered in connexion with the draft international sanitary regulations

Joint ILO/WHO Committee on the Hygiene of Seafarers 1

The publication of the report on the first session of this committee will be deferred the Executive Board having proposed that the joint committee reconsider at its second session certain of its recommendations

Other Problems

Rabies prophylaxis

Recent research has led to new developments in rabies prophylaxis It was been shown that the injection of an already infected animal with hyperimmune serum is more effective than vaccination. This new treatment has been applied to human beings only in rare cases. It is therefore very important to carry out mass tests so as to obtain statistical results. The trials should take place in areas where a sufficient number of cases of rabies in human beings occurs in spite of vaccination. Egypt and Israel appear to satisfy the necessary conditions. The tests would consist in treating two groups of persons who have been gravely exposed to the risk of infection one group would be treated with serum and vaccine and the other with vaccine alone.

In addition the vaccination of dogs the value of which from the preven twe standpoint is unquestionable constitutes a difficult problem owing to the variable quality of rables vaccine and the necessity of repeating the injections annually. A new process of vaccine production on eggs has enabled a suitable vaccine to be obtained which gives a higher and more lasting immunity than any of the vaccines previously used. Various regions have been considered for the field trials of this vaccine. The Israeli veterinary service has promised cooperation if such trials are carried out in their country. To avoid delay the Board authorized the undertaking of these trials on condition that the Expert Committee on Rabies which is due to meet in April 1950 should consider them desirable.

Relations with UNICEF

The report on the third session of the Joint Committee on Health Policy UNICEF/WHO ²⁸ stated that 74 projects had been approved or were already under way and that 60 others were in preparation. The projects referred to are for Europe the Eastern Mediterranean Region South East Asia the West Pacific Region and the Americas. In each of these areas

See Ch H M Hith O g 1950 4 80 Chron Horld Hi h O g 1949 3 100

opinion that the report ought to have stressed the necessity for the integration of such training in the courses of study designed for public health officers and other related medical personnel. The recommendations contained in the report are largely applicable to those countries which already possess well developed training facilities—more attention should have been given to rural sanitation—which is often assential in underdeveloped areas

Expert Committee on Mental Health 1

Having considered the report on the first session of this committee the Board stressed the importance that public health services should accord mental health. It emphasized the need for providing training facilities for mental health specialists and for encouraging research in clinical psychiatry Instruction in mental hygiene and psychiatry should be incorporated in the courses of study of doctors particularly of piediatricians. These objectives will receive priority when the programme drawn up by the committee is carried out. However, the resources of WHO will probably not allow its full accomplishment in the immediate future.

The Board further approved a recommendation of the committee—which was also supported by the Expert Committee on Drugs Liable to Produce Addiction—regarding meetings of experts to study problems of drug addiction and alcoholism

Expert Committee on International Epidemiology and Quarantine

The two proposals concerning international sanitary regulations and regulations relating to the Mecca pilgranage prepared by the committee at its second session were examined at the meetings of the Executive Board It was decided to refer these documents to Member States and to the international agencies concerned for their study and comments the latter to be included with the drafts to be submitted to the Fourth World Health Assembly The Board noted the committee's report and expressed its satisfaction that a number of complaints arising from sanitary measures taken by governments and exceeding the provisions of the international conventions had been amicably settled

Yellow Fever Panel 3

The Board emphasized the interest of the report compiled by this group of experts particularly as regards the definition of endemic and epidemic areas. It deferred taking any decision about the vaccination certificates required of travellers coming from yellow fever areas until such time as the

See Ch on World Hith Org 1950 4 3

See Chron II Id Hith O v 1950 4 46 See Ch on II of I Hith Org 1950 4 5.

MEMBERSHIP OF THE EXECUTIVE BOARD

The designating country is given in brackets after each member's name

- Dr H S Gear Deputy Chief Health Officer for the Union of South Africa Cape Town (Union of South Africa) (Vice Chairman)
- Dr C L González Director of Public Health Ministry of Health and Social Welfare Caracas (Venezuela)
- Dr J A Höjer General Director Swedish Medical Board Stockholm (Sweden) Dr H Hyde Medical Dire tor US Public Health Service Washington D C (United States of America)
- Dr M. De Laet. Secretaire géneral du Ministère de la Sante publique et de la Famille. Brussels (Netherlands)
- Dr M D Mackenzie Principal Medical Officer Ministry of Health London (United Lingdom)
- Sir Arcot L Mudaliar Vice Chancellor University of Madras (India) (Chairman)
 Dr M Nauf By Assistant Under Secretary of State Ministry of Public Health
 Cauro (Exerci)
- Dr J Parisot Professeur d Hygiène et de Médecine sociale à la Faculté de Médecine de Nancy (France)
- Dr G H de Paula Souza Director and Professor Faculty of Hygiene and Public Health, University of São Paulo (Brazil)
- Dr A Stampar President of the Yugoslav Academy of Sciences and Arts Professor of Public Health and Social Medicine University of Zagreb (Yugoslavia)
- Dr E Tok Under Secretary of State Ministry of Health and Social Assistance Ankara (Turkey)
- Dr A Villarama Secretary (Minist r) of Health Department of Health Manila (Philippines)
- Dr J Zozaya Technical Adviser Ministry of Health and Welfare Mexico City (Mexico) (Lice Chairman)

Members designated by the Byelorussian Soviet Socialist Republic by China by Poland and by the Union of Soviet Socialist Republics were absent

advisers on maternal and child health tuberculosis venereal diseases and yaws malaria and nursing are already or will soon be available

The supply of material by UNICEF to governments has been an important factor in carrying out the latter's health programmes. WHO in its turn has given technical advice in the initiation of programmes with the means available. The co-operation thus achieved has proved most fruitful

Regarding the BCG vaccination campaign known as the Joint Enter prise, the Scandinavian Red Cross societies have announced their intention of terminating their activities in this enterprise on 31 December 1950 or as soon thereafter as the campaigns now under way have been concluded in the opinion of the representative of the Scandinavian Red Cross societies to UNICEF, viccination campaigns in non European countries should be carried out under the antituberculosis programmes of various organizations preferably on a regional basis. The question of technical responsibility for BCG vaccination programmes therefore requires reconsideration in particular of the part that WHO could take in assisting governments to launch new campaigns.

Headquarters accommodation

The project for providing premises for the Geneva offices adopted by the Executive Board at its fourth session. did not meet with the approval of the Secretary General of the United Nations in all respects, a new project has therefore been worked out and agreement reached among all the groups concerned. This project will enable about 210 additional offices to be provided. It provides for the raising of the Ariana wing of the Palais des Nations by three floors the construction of a new wing of five floors and various internal changes in the existing building. The total cost of construction will amount to about 4 000 000. Swiss francs. The Swiss Federal Council has officed WHO 1 subsidy of 3 000 000 Swiss francs a sum of 1 000 000 francs will be taken by WHO from the balance of unused appropriations for 1949.

The Executive Board empowered some of its members constituted is a Building Committee to take a final decision both as regards the construction project and the conditions of occupancy this committee will be at the disposal of the Director General throughout the duration of the construction work in order to decide on behalf of the Executive Board any questions which would normally have to be referred to the latter. The Executive Board expressed its appreciation to the Swiss Government for their generous contribution.

Chron World Hith O c 1949 3 44

The 1950 budget provided for a total expenditure of \$7.501.500 Member States were to contribute \$7.000.000 and the remainder was to be made up mainly by funds transferred by UNRRA. On the assumption that as in 1948 approximately 18% of the contributions due under the 1950 budget assessment were to remain unpaid a fresh substantial deficit would have to be faced. For this reason in taking account of the probable receipts for 1950 the Standing Committee thought it prudent to keep the level of expenditure for 1950 at \$6.000.000 pending a review of the financial position of the Organization by the Third Health Assembly. The Executive Board at its fifth session raised this figure to \$6.300.000.9

1951 Budget

In general, the expenditure involved in carrying out the WHO programme for 1951 will remain at the same level as that for 1950. The committee has been impressed not only with the value balance and scope of the programme proposed by the Director General but also by the detailed and closely co ordinated planning necessary to secure successful results. In examining the budget estimates for 1951 however the committee did not find them adequate to meet present world health needs which are so wast and complex that they cannot be met for many years. The policy of giving priority to certain problems however does provide a means of action. The committee considered that a budget of \$7.300.000 was financially sound and adequate for the continuation during 1951 of the programme for 1950 which was approved by the Second Health Assembly. The Third Health Assembly might must the Executive Board to establish late in 1950 or early in 1951 in the light of the financial position of the Organiza tion at that time and as estimated for 1951 the level of expenditure to be maintained during the first six months of 1951 consideration of the level of expenditure for the Fourth Health Assembly.

Technical Assistance for Economic Development

The expanded programme of technical assistance for the economic development of underdeveloped countries is still being worked out by the United Nations which has made a special allocation for WHO participation. The Executive Board at its fifth session approved this programme which will be submitted to the Third Health Assembly.

See p # 99 Chro H 14 HI h O # 1949 3 165

BUDGET AND STRUCTURE OF WHO

Meeting of the Standing Committee on Administration and Finance

The financial position of WHO which in the past has been a constant preoccupation of the Director General the Executive Board, and the Health Assemblies has again been reviewed at the meeting of the Standing Committee on Administration and Finance 1 held in Geneva from 6 to 25 January 1950 the report of which after review by the Executive Board at its fifth session, will be submitted to the Third World Health Assembly which meets in Geneva in May 1950

The Standing Committee was established at the fourth session of the Executive Board as the result of resolutions of the Second Health Assembly² to review the budget estimates for 1951, to examine the organizational structure, and to report its conclusions and recommendations to the Executive Board 3

Present Financial Position of WHO

Although in the immediate future the financial position of WHO is not seriously endangered it might become more critical next year as a result of delays in the payment of contributions by Member States For the year 1948, 82 15% of the contributions had been collected at the end of 1949 out of a total assessment of \$3 172 726 leaving an uncollected balance of \$577 321 (or 17 85% of the total contributions) For the year 1949 for which the assessment amounted to \$5 046,293 73 29% only had been collected by the end of the year leaving an unpaid balance of \$1,347,624 (which is 26 71% of the assessment) The outstanding balances include the unpaid contributions of the four Member States who have announced their withdrawal from membership of the Organization 4 The deficits have to be covered by advances from the working capital fund

The membership of the committee was as follows

Dr A Stampar Dr A Villarama

Secreta y M P Segel Acting Assistant Director General WHO

The report of the Standing Comm ties on Administration and Finance will be published as Off Rec. World Hith O g 26

^{*} Off Rec Wold Hith Og 21 38 46 Off Rec World Hith O g 22 11 Ch on Wo ld Hith Org 1949 3 237

Since the meeting of the Standing Committee two further Member States have announced their with drawal from the membership of the Organization see Chron Wo ld Illih O g 1950 4 92 126

NURSING NEEDS STUDIED

The worldwide need for more nurses is a major problem in planning and executing many health programmes Recognizing this need the Second World Health Assembly authorized the establishment of an expert committee on nursing to advise on means of recruiting and training nursing personnel. This committee met for the first time at Geneva from 20 to 26 February 1950 *

In considering the question of how to provide an adequate quantity and quality of nursing services to meet the existing needs the Expert Committee on Nursing concluded that the chief problems involved are

- (1) securing candidates for all types of training
- (2) promotion of the most effective use of available nursing personnel and
 - (3) provision of the necessary educational facilities and programmes

Securing Candidates

Securing candidates for training is dependent upon many factors such as supply of woman power in general relative attractiveness of competing occupations quality of training schools and programmes working conditions of nurses and social attitudes toward the profession and its practitioners. The committee recommended that each government study the reasons for difficulty in securing candidates taking into account psychological and social attitudes. It also recommended that WHO mixte the cooperation of the International Labour Organization in a joint investiga

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Organizational Structure of WIIO

In considering the present structure and administration of the Organiza tion, it is necessary to bear in mind the various factors which have con tributed to its development. While the general structure of WHO is laid down in its Constitution various factors such as the work of the Interim Commission, the functions inherited from other organizations, the decisions of the First and Second Health Assemblies and of the Executive Board and their application by the Director General have given it its present characteristics. The most important of the fundamental principles applied by the Director General is that of decentralization the committee stressed the importance of the development of self reliance and local responsibility so that the Organization's programme can be successfully carried out It noted however, that there are certain difficulties in the present transitional phase of integrating the Pan American Sanitary Organization with WHO as the Regional Office for the Americas The committee noted also that the absence of regional organizations in certain are is of the world has affected the existing organizational structure

The chief function of the headquarters is the planning and supervision of the actuaties of the Organization and of the coordination of the work of the regional offices collection collation and dissemination of informalinison with the United Nations the specialized agencies and voluntary organizations provision of technical advice on problems beyond the resources of the regional offices provision of personnel and medical supplies and maintenance of central financial control. The committee agreed that as hitherto activities at the headquarters office should include co-ordination and supervision of technical educational services ordination of epidemiological information, health statistics services, and central advisory services to governments standardization of biological and pharmaceutical products. Inhoratory tests, etc., exchange of information on health matters editorial publications and reference services estab lishment of international regulation relating to the improvement of health and the solution of any technical questions which from time to time may become of special importance

With regard to the present stage of development of the Secretariat the committee made recommendations for the regrouping and imalgimation of certain administrative units. A more thorough study of the organizational structure and administrative efficiency of the Organization has been deterred to a later date.

to include among their administrative officers highly competent nurses with authority to assist in planning health services to define the role of nursing in these services and to determine nursing personnel requirements. Also within the province of these administrative nurses would be leadership in determining policies in nursing education, guidance in national studies of nursing resources and needs and provision of a means of exchanging information on nursing with other countries and with WHO

Education

Basic training

Educational facilities and programmes must be provided for all types of nursing personnel and should include provision for in service as well as pre employment training

In countries where basic educational programmes are new or in the process of being established or revised the following points should be emphasized

(1) Schools of nursing should be directed by nurses competent both as nurses and as educators

16 2 WHO CLASS FOR THRESCHIOSIS HURSES IN COLUM



FIG 1 EXPERT COMMITTEE ON NURSING FIRST SESSION



Leit to right (seeled round table). Miss E.W. Brackett. Mills M. L. David Interpreter Miss T. K. Adrenvala Mile Y Hentsch. Miss L. M. Creenian (WHO). Miss V. Snellmert WHO). Miss D. Baggallay (WHO). Dr. G.W. Miller (WHO). Miss F. N. Udell Miss D. C. Bridges. Miss G. Peake

tion of the conditions of employment of nursing personnel this investigation to include consideration of salaries hours, living conditions personnel policies, qualifications required amount and type of supervision standards of services, and problems of recruitment. It was suggested that a pilot study be undertaken in an area with typical problems such as the Federal District of Mexico.

Effective Use of Nursing Personnel

Effective use of nursing personnel involves (i) efficient administration and supervision of nursing services in hospitals and public health programmes, (2) planning and operation of hospitals and equipment for maximum efficiency, (3) assignment of functions to appropriate personnel (4) adjustment of standards of service to the amount of service available through simplification of procedures and (5) distribution of nurses to services and to geographic areas in which they are most needed by means of incentives such as good living-conditions salaries educational opportunities etc. To promote the most effective use of nursing personnel the committee recommended that WHO urge national health administrations

Advanced training

In every country there is a need for more advanced training for nurses who will occupy supervisory administrative or specialized positions. Such training should provide (1) advanced courses and supervised practice in the clinical field in which the nurse is to be employed—for example psychiatry mental health orthopaedics tuberculosis child care maternal health public health methical and surgicial nursing et and (2) courses in administration and supervision of nursing services in hospitals or public health programmes in teaching and in administration of schools of nursing The Expert Committee on Nursing recommended that the International Council of Nurses make a study of existing advanced education programmes throughout the world and prepare a list of these programmes with appropriate comments. This list would be extremely valuable particularly to those countries which do not have a sufficient number of nurses requiring advanced training to warrant setting up programmes and which might therefore with to send nurses to educational centres in other countries. Co operative planning among countries in providing these needed educational facilities would be advisable. Governments should make it possible through scholarships and other means for nurses to take advanced training in their own countries or slewshere as war be required.

Specialities

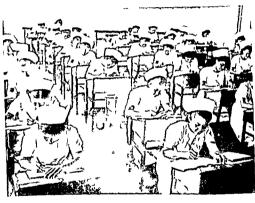
Special training should be available for midwives and industrial nurses Anaesthesiology the committee feels should be considered a medical speciality but until there is a sufficient number of physician anaesthetists specially trained nurses will continue to be used as a substitute in some countries. The committee was of the opinion that technicians for other specialities such as laboratory work physiotherapy and radiography should be trained independently of nurses.

Training of auxiliaries

The responsibility for preparing auxiliary nursing personnel for their duties falls largely upon nurses whether the training is given previous to employment or on the job. The scope of the training for these workers should be based on the needs of each country and on the functions they are to perform In all instances a planned scheme of instruction must be carried out practice in the care of patients should be given to the point of achievement of elementary nursing skills. The work of auxiliary nursing personnel if properly supervised by nurses can help fill some of the nursing needs but whenever possible these workers should be encouraged to complete their general education so that they can enter schools of nursing

- (2) While physicians and other professional and health workers should give instruction in nursing schools the teaching of clinical nursing and the supervision of students in their work should be done by qualified nurses (3) Curricula should integrate principles of mental health, public
- (a) Candidates for admission to nursing schools should be carefully
- (4) Candidates for admission to nursing schools should be carefull selected

FIG 3 WHO NURSING CLASS AT THE RED CROSS SCHOOL OF NURSING Bangkok Thailand



Where educational programmes are ifready well established they should be re evaluated in the light of whether they are adequately preparing nurses for modern health work. This may require a change from the idea that nurses do things for people to the idea that they do things with people the nurse patient relationship having, in itself real therapeutic value. Such an approach entails understanding and consideration of the role of the physical and social environment in the promotion of health and of the patient as a physiological and psychological entity rather than as a pathological case. It requires interest in achieving positive health for all the people and engaging their active participation in health programmes, rather than concentrating merely on caring for the suck.

The committee further recommended that WHO urge each Member Government to undertake (or continue) a study of

(1) the existing supply of each type of nursing personnel (including midwives and other specialized groups engaged in nursing duties) and of auxiliary nursing personnel

(2) the estimated number of each type of personnel needed in all categories of employment based on existing and prospective health programmes

(3) the factors which interfere with securing candidates for training of various types and

(4) the effectiveness with which nursing resources are used

The Expert Committee on Nursing also recommended that WHO refer its report and other pertinent materials to the Commission on the Status of Women UN Committee on Human Rights, for special consideration and that WHO request the Commission to lend its support on a national online report of the status of nurses

PROFESSIONAL AND TECHNICAL EDUCATION OF MEDICAL AND AUXILIARY PERSONNEL

No lasting improvement in the health of the people can be achieved unless there is an adequate number of qualified physicians nurses sanitary engineers and related personnel to perform the necessary tasks. The training of these groups is therefore of considerable importance to WHO. The purpose of the first session of the Expert Committee on Professional and Technical Education of Medical and Auxiliary Personnel 1 held in Geneva from 6 to 10 February 1950 was to advise WHO on its course of action with regard to the education and training of medical and related personnel

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WHO Activities and Nursing

Fellow ships

The committee urged that an increasing number of well selected nur be granted fellowships for study in educational centres and welcomed to plan for sending doctors, public health administrators, sanitary enginee

FIG 4 WHO PUBLIC HEALTH NURSE



The WHO nurse (second from left) with local nurses in an indian village

and nurses in teams i study Regional offic should be encouraged stimulate the use of fello ships for nurses

It was recommended that WHO sponsor international seminars on nursir problems supply leader for such seminars, and incressive provide fellow ships for nurses from man countries to attend them

Provision of literature

The committee saw in WHO s programme for distributing medical litera ture and teaching equipment an opportunity to provide needed materials to nursing schools and it urged that governments be encouraged to request this type of assistance from

the Organization It recommended that WHO publicize the availability of teaching materials and nursing literature so that nurses and nursing schools may make use of these educational tools

Major Recommendations

In considering nursing from the standpoint of its role in promoting the health of people the committee recommended that WHO undertake fundamental research to determine the real health needs of peoples in two or more different societies using anthropological and sociological methods. This study should also determine how nursing can best function to meet these needs through health teaching participation in preventive programmes erre of the sick. and other means

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Physicians and other medical workers should be trained not only for the capable performance of their professional techniques but also for dealing with problems of health as they arise from or are related to sociological and psychological problems of the individual, the group, and society as a whole. The role of physicians as health leaders of the community and country has been receiving an increasing amount of attention The committee expressed the view that, at present medical education in most countries does not prepare doctors for this role. Medical curricular should be revised to give more emphasis to the preventive and social ispects of medicine and health. A recommendation was adopted that studies of this subject be made by a special group of experts on medical education

The committee considered the question of quantitative personnel needs and noted various approximate requirements of personnel in proportion to population (for example one general practitioner to 1,500 population one surgeon to 10 000 population etc.) It was evident however that these requirements would vary depending on density of population state of communications prevailing economic conditions social organization prevalence of disease, and other local factors. A comparison of personnel supply and demand in different areas throughout the world is made still more difficult by the multiplicity of designations for various types of per However the committee did not think it advisable to propose at this time an artificial uniform nomenclature for classifying medical personnel but it did recommend that information concerning the designa tions of the diverse types of health workers should be collected and made available to those interested

Training resources in many parts of the world are not sufficient to prepare in adequate number of personnel and it was emphasized that countries should be encouraged and assisted in developing their own educational ficilities This activity should receive special consideration in programmes for technical assistance in economic development. The training of teaching personnel should have high priority in WHO educational plans and fellow ships should be provided for advanced teaching personnel lecturers and others to take refresher courses

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Ber F. Gil reste. World Medial Adva. At in Brussel.

Ber B. Grant Der i. fro Europe Internation in Reckefeller F. undat in Paris France

Dr J. B. Grant Der i. fro Europe Internation in the rinding of the Company of Education Geneva Switzerland.

Bureau of Education Geneva Switzerland.

Secreta sat Dr E Grzeg rzewski Drect r D i nof Profess nal nd Technikal Ed cati n WHO (Secretary)
Dr E Kohn Chef F hange of Scient fi Informati n Sect n WHO
Dr C Y Shu Assistante to Ed atton I Institut in Sect n WHO

FIG 5 EXPERT COMMITTEE ON PROFESSIONAL AND TECHNICAL EDUCATION
OF MEDICAL AND AUXILIARY PERSONNEL FIRST SESSION 1



Left to right (seated round table). Dr.M. S. Akalin, Miss M. And ell. Dr.G. W. A. de son (V. ce Crairms.). D. R. Sand (Chairman). Dr.E. Grzegorzewski (WHO). Dr.J. M. Mackintosh (Rappor Leur). D. H. Romero. D. G. H. de Paula Souza. Dr.J. Par sot. Dr.A. Stampar. Dr.J. B. Grant

There is a need for co ordination in the training of various types of health personnel so that each worker may realize his relationship with others who are performing different but related tasks. For example, the saintary engineer ought to be aware of general public health problems and the public health officer should have some conception of the work of the saintary engineer. This becomes particularly important in areas where trainwork is executed.

It is unlikely that large numbers of highly trained personnel can be supplied soon in some countries. Although every possible effort should be made to accelerate this process attention must be given to temporary expedients such as training auxiliary personnel to work under the super vision of more adequately trained staff members.

There is a steady growth of specialization within public health services and the committee expressed the opinion that specialists (e.g. in tuberculosis venereal diseases maternal and child health etc.) should be required to take basic public health training in addition to or before concentrating on their specialities.

The committee discussed various methods of furthering the training activities of WHO paying particular attention to the fellowship programme Specific recommendations were made with regard to the selection of Fellows

and their subjects of study Recommendations were also adopted concerning ways and means of assisting countries in the development of their educa tional institutions and of increasing collaboration among the institutions themselves in an effort to ruse standards of training Minimum basic requirements for a school of public health were outlined and accented

The exchange of scientific information was given considerable attention and it was recommended that a subcommittee be set up to examine some

EXPERT COMMITTEE ON PROFESSIONAL AND TECHNICAL EDUCATION OF MEDICAL AND AUXILIARY PERSONNEL FIRST SESSION II



Dr R Sand (Chairman)

of the problems involved The committee endorsed programme for

WHO s supplying medical literature and teaching equipment to countries and educational institutions

The Expert Committee on Professional and Tech me il Education of Medical and Auxiliary Personnel examined those sections of WHO programmes for 1950 and 1951 with which it was concerned, endorsed made suggestions regarding their implemen tation, and added several recommendations WHO s role it was decided should be primarily one of stimu lating and co-ordinating efforts undertaken by gov ernments and international agencies

The committee's recommendations will be submitted to the Executive Board and to the World Health Assembly and if approved, may become the basis for the development of training programmes of WHO

ENVIRONMENTAL SANITATION IN ITALY

By decree of the High Commissariat for Hygiene and Public Health dated I May 1949, a committee of experts was set up in Italy to examine the state of the public health services and to make specific recommendations for their reorganization This committee presided over by the High Com missioner for Hygiene and Public Health was composed of Italian specialists in public health and of experts named by the Rockefeller Foundation (International Health Division) and by WHO

The survey was prompted by a need to re evaluate the public health services in the light of consequences of war During the second World War not only were many sanitary installations destroyed in Italy but it was also impossible to improve those already in existence or to construct new ones. Since the war other public health problems have likewise arisen and reform of the public health services has become essential

In order to facilitate the work of the study group it was divided into six sections public health organization environmental sanitation medical care public health personnel health insurance and social welfare legisla tion and juridical and administrative aspects of the health services

Of special interest to WHO in the work published by the Office of the high Commissioner for Hygiene and Public Health 1 is the report on environmental sanitation submitted by Professor G Buonomini Director of the Institute of Hygiene at the Medical School of the University of Pisa and S Pincus who was at the time chief of the Environmental Sanitation Section of WHO These two experts had an opportunity to study the environmental sanitation situation in Italy to present a detailed report thereon and to formulate conclusions on various aspects of the problem (drinking water sewage garbage milk and other foods housing and town planning etc)

It is common knowledge that in Roman times the water supply and the drainage works in Italy were remarkable. Italy has often been a pioneer in the public health field. Today however war damage plus a considerable increase in population with which essential sanitation works have not kept pace have brought about environmental sanitation conditions which call for an extensive public works programme

At the present time not only is the supply of drinking water insufficient (three quarters of the communes in certain areas do not have sufficient quantities of drinking water) but the water is in many cases polluted. This situation coupled with inadequate sewage disposal and the absence of inspection of foodstuffs favours outbreaks of typhoid and paratyphoid bacillary and amoebic disentery helminthasis etc.

Whereas in 1930 the morbidity for typhoid fever in the Scandinavian countries Great Britain Switzerland and other countries was below 5 per 100 000 inhabitants and the death rate less than 1 per 100 000 in Italy between 1930 and 1935 the death rate fluctuated between 12 and

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15 per 100 000 inhabitants and before 1939, morbidity generally exceeded 80 per 100 000 inhabitants. This situation deteriorated considerably during the second World War and has improved but little since.

It can be stated without evaggeration that half of the population drinks polluted water. The surface water, soil and phreatic water are contaminated. Numerous cities and many villages lack proper facilities for seware disposal. In 58% of the communes there are no sewage systems or, where they do cust no treatment of residurity sludge.

Over population lack of inspection of foodstuffs and unhygient methods of their production and other frectors also account for the frequency of water borne diseases or diseases attributable to deficiencies in environ mental sanitation. The experts found many breaches in matters relating to the production and inspection of foodstuffs, in the dairy trade for example, there is a need for considerable improvement in methods of collecting transporting pasteurizing and testing milk.

One of the gravest problems facing Italy is that of housing. Although the present situation is due largely to the war, this problem did exist and was far from solution even before the war. One report reveals that the average number of inhabitants per room rose from 131 in 1931 to 148 by the end of 1947. The situation is even more serious in the south of Italy (2.03 persons per room) and in the Islands (1.75 persons per room) than it is in the north of Italy (1.26 persons per room). In spite of the achievements of the Istituto di Case Populari (Institute for Houses for Workers) and the Istituto Nazionale Case degli Impiegati dello Stato (National Institute for Houses for Civil Servants) a tremendous amount of work must still be done before even the minimum requirements are satisfied

According to the experts it is important that the public health author tities give priority to remedying the critical situation caused by insufficient supplies of drinking where in a large part of Italy and to the housing shortage. Until some progress has been realized in these fields there can be little hope of reducing the incidence of discress caused by inadequate environ mental sanitation. It therefore seems urgent to attach qualified sanitary engineers to the different services concerned—national regional or urban. The task of these sanitary engineers would be to study projects and plans for sanitary improvements relative to supplies of drinking water the disposal and treatment of sewage and the problem of houshold garbate disposal. They would also be concerned with solving housing and town planning problems. Finally, they would have to provide new regulations for the control of milk products and standards applicable to foodstuffs.

Notes and News

Visit of the King of Afghanistan to the Director General

King Mohammed Zahir of Afghanistian accompanied by several important personages including the Afghan Ambassador in Paris and Professor P Boulenger Dean of the Medical Faculty at Kabul paid a visit on 22 February 1950 to Dr Brock Chisholm Director General of WHO at the Palasi des Nations Geneva. The King of Afghanistian thanked Dr Chisholm for the assistance which the Organization gave to his country during 1949 and examined with him the lines along which certain health programmes might be apolled in the future.

WHO health activities in Afghanistan are administered by the South East Ais. Regional Office. It was largely through this office that assistance was sent to the country at the time of the typhis epidemic in July 1949. WHO has also undertaken investigations concerning the incudence of veneral infections and malars in Afghanistan where latter disease constitutes a very unportant health problem. It has already been possible to undertake aniturnalizar demonstrations. The Isanching of antumalaria campaigns as well as of other health programmes will contribute to the improvement of the health of the pools of Afghanistan.

Antimalaria Campaign in Persia

Professor M Giaquinto Mira left Geneva on 13 March 1950 for Persia where he will direct the work of the WHO antimalaria team. In the rural areas of Persia malaria is one of the biggest obstacles to the economic and social development of a large part of the population.

Professor Giaquinto Mira is well known for his work on malaria onchocerciasis typhis and horselfosis From 1928 to 1936 he directed the Antimalaria and Tronical Discases Service in Giadennala. During the last fourteen years he has taken part in the general organization of the public health services in Abyssian and has collaborated in various antimalaria campaigns. In Addis Ababa he held the post of Director of the Imperial Ethiopain Medical Research Institute Professor Giaquinto Mira will be assisted by C. Garrett Jones. entomologist of the London School of Hygiene and Troppeal Medicane.

Antituberculosis Campaign in Poland

The mass BCG vaccination campaign undertaken in Poland by the Joint Enterprise I will soon be completed. The United Nations International Children's Emergency Fid (UNICEF) for its part will contribute directly lowards the antituberculosis campaign in Poland by sending 140 radiography units. Thirty of these units have afterably been delivered. A WHO expert on radiography. C. Ashwin tested each unit before dispatch. Mr Ashwin had already been responsible in 1949 for training specialists in the use of modern tradiography apparatus in Poland.

Nutration Experts in Ceylon and Egypt

Experts from the United Nations Food and Agriculture Organization (FAO) and from WHO have gone to Ceylon and Egypt in order to study certain problems connected with nutrition. At the request of the Government of Ceylon Dr Dagmar Wilson of the Institute of Social Medicine Oxford (England) will inquire into the incidence of

endemic gostre there. In Egypt Dr. W. R. Aykroyd Director of the Nutrition Division of FAO and Dr. F. W. Clements Chief of the Nutrition Section of WHO will study with the health authorities various problems connected with their special field. Dr. Clements will also visit other areas in the Eastern Mediterranean in order to investigate the nutritional conditions of Arab refugees from Palestine.

Rehabilitation of the Disabled

Experts from the United Nations and from other specialized agencies—ILO IRO UNICEF and WHO—met in Geneva between 27 February and 3 Mark 1950 under the chairmanship of Dr H Balme a United Nations consultant and formulated proposals for an international rehabilitation programme for the disabled to be carried out through the combined action of the above mentioned international organitions. These proposals will be forwarded to the Scientary General of the United Nations so that they can be submitted to the Social Commission of the Economic and Social Council at its sixth session starting on 3 April 1950.

Supervisory Office for the Western Pacific

Pending the setting up of the Regional Organization for the Western Pacific a Supervisory Office for the Western Pacific has been established in Geneva on a temporary basis. It will be directed by Dr I Fang formerly Acting Director. WHO Division of Field Operations.

Albania Decides to Withdraw from WHO

In a letter dated 25 February 1950 addressed to Dr Brock Chisholm Director General of WHO Mr Mihal Prifti Deputy Minister for Foreign Affairs of the People's Republic of Albania announced the decision of his country to withdraw from the World Health Organization

In his letter the Deputy Minister for Foreign Affairs asserts that the activities of WHO are not satisfactory and do not conform to the principles defined in the Constitution Furthermore according to him the attitude of the World Health Organization towards Albama has been of a discriminatory nature. The commitments which the World Health Organization has undertaken from time to time in reply to the continuous and moderate requests addressed to it by the Albaman Government for assistance in the various fields of medicine such as antimalaria and anti-veneral disease campaigns, etc and for other help in the form of demonstration equipment have not been respected by the Organization which on the contrary has postponed them without any reason and constantly made them subject in a quite unjust way to conditions whose nature is such that the Albaman Government has found them unacceptable entirely without foundation and contrary to the statutes of the Organization.

The decision of Albania will be submitted to the Third World Health Assembly So far 68 countries have ratified the Constitution of WHO However although the Constitution contains no clause providing for withdrawal from the Organization five other countries have already declared that they no longer consider themselves member of WHO They are the USSR the Byelorussian SSR the Ukrainian SSR Bulgaria and Roumanna 5

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RECENT AND FORTHCOMING MILETINGS

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WHO Expert Committee on Antibiotics first session Geneva 11 15 April WHO Expert Committee on Health Statistics Subcommittee on 11 15 April

Hospital Statistics Geneva

17 21 April WHO Expert Group on Prematurity Geneva

WHO Expert Committee on Rabies first session Geneva 17 22 April

WHO Expert Committee on Health Statistics second session 18 22 April Centra

WHO Expert Committee on the Undication of Pharmacopocus 20 29 April sixth session. New York

WHO European Health Conference to consider the establishment May of a Regional Office for Europe, tentatively Geneva

Third World Health Assembly Geneva S May

Joint Committee on Health Policy UNICEF/WHO Geneva 29 30 May

WHO Executive Board sixth session Geneva 1 lune

August WHO Expert Group on School Health, Geneva

Joint II O/WHO Committee on Occupational Hygicine first session 25 August

2 September Geneva

WHO Expert Committee on Tul creulosis fifth session Sentember

Sentember WHO Expert Committee on Venere if Infections Subcommittee on Scrology and Liboratory Aspects second session tentatively Paris

WHO Regional Committee for the Eastern Mediterranean third Scotember

sussion Ankara

WHO Regional Committee for South East Asia third session S ntember Colombo

WHO Regional Conference on Statistics tentatively Ankara September

WHO Expert Committee on Mental Health second session Paris 11 16 Sentember

1949 YEAR OF DEVELOPMENT FOR WHO

The annual report of the Director General 1 on the work of the World Health Organization is as stated in the introduction much more than a chronicle of progress by an organization. It reflects the growing realization of governments that many health problems require for their effective solution the united action of all the nations and the readiness of countries to give as well as to accept assistance in this great common task.

The programme for 1949 concentrated on aiding governments in controlling and preventing disease in co-ordinating and stimulating public health work and in strengthening public health administrations. Technical services were expanded numerous joint enterprises were carried out in collaboration with other. United. Nations agencies and educational aid was given through provision of fellowships medical literature and teaching materials.

Progress was made in administrative matters such as adapting activities to budget and making provisions for enlarging the Palais des Nations to accommodate the WHO Headquarters D centralization was advanced the Regional Office for South East Asia (New Delhi) began to function on I January the Regional Office for the Eastern Mediterranean (Alexan drips) stated operations on I July and arrangements were undertaken for integrating the Pan American Sanitary Bureau with WHO the former serving as WHO Regional Office for the Americas during most of the year

Twelve new Members were welcomed into the Organization making the total 68. Announcement of the decisions of four States to withdraw from active participation was received with regret

ADVISORY SERVICES

Because of budgetary limitations the Organization's assistance to individual governments consisted largely of technical guidance rather than of direct assistance. This guidance was supplied by technical literature by provision of fellowships and teaching materials and most directly by services of consultants demonstration teams and other types of specialized personnel. In assisting governments to initiate and earry out either general or specific health programmes. WHO emphasized self help and sought to encourage the building up of national services which can continue to operate after outside help is withdrivin

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RECENT AND FORTHCOMING MEETINGS

11 15 April WHO Expert Committee on Antibiotics first session Genera
11 15 April WHO Expert Committee on Health Statistics Subcommittee o

11 15 April WHO Expert Committee of Hospital Statistics Geneva

17 21 April WHO Expert Group on Prematurity Geneva

17 22 April WHO Expert Committee on Rabies first session Geneva

18 22 April WHO Expert Committee on Health Statistics second session

Genes 1

20-29 April WHO Expert Committee on the Unification of Pharmacopecias sixth session New York

May WHO European Health Conference to consider the establishment

of a Regional Office for Europe, tentatively Geneva

8 May Third World Health Assembly Geneva

29 30 May Joint Committee on Health Policy UNICEF/WHO Geneva

1 June WHO Frecutive Board sixth session Geneva

August WHO Expert Group on School Health Geneva
25 August Joint ILO/WHO Committee on O cumptional Hygiene first session

28 August Joint II. 2 September Geneva

Sentember WHO Expert Committee on Tuberculosis fifth session

Suptember WHO Expert Committee on Veneral Infections Subcommittee on Scrology and Liberatory Aspects second session funtatively Paris

September WHO Regional Committee for the Eistern Mediterranean third

September WHO Regional Committee for South East Asia third session

Colombo

WHO Regional Conference on Statistics tentitively Ankara

Suptember WHO Regional Conference on Statistics tentitively Ankara

11 16 September WHO Expert Committee on Mental Health second session Paris

In the epidemiological survey 3 000 children were examined and during the entomological survey 10 000 specimens were collected DDT spraying the sa afforded protection to a population of 36 000 living in an area of 65 square miles Exceptional meteorological conditions have made it difficult to evaluate results but an extension of the campaign is being planned

Tuberculosis

Tuberculosis activities were greatly expanded during 1949. Many of the programmes were carried out with the assistance or under the auspices of UNICEF or the Joint Enterprise. The work has been largely decentralized through transfer of direction to the regional offices. Tuber culosis advisers were appointed to the Region of the Americas and to the Eastern Mediterranean Region and plans were made for the appoint ment of a similar adviser to South East Asia.

Programme guidance and technical information were supplied by the Expert Committee on Tuberculosis which met for its fourth session in July ⁸ Plans were made for a subcommittee on streptomycin to be convened in 1950 and WHO assisted UNICEF in preparing for a conference of strendomycin experts held in Parts.

Preliminary surveys were conducted during 1949 in Aden Belgium Cyprus the Hashemite Kingdom of the Jordan Iran Iraq Italy the Netherlands Saudi Araba Syna and 19 countries of the Americas Requests were considered for joint UNICEF/WHO projects on tuber culosis with special reference to BCG vaccination for Malaya Mevico the Philippines Singapore and Thailand

BCG vaccination campaigns sponsored by the Joint Enterprise were or will be conducted in the following countries. Austria Ceylon. Czecho slovakia Egypt Finland Greece India Israel Lebanon Pakistan Poland and Yugoslavia. The WHO Tuberculosis Research Office in Copenhagen is co operating with UNICEF in evaluating the results of these campaigns and members of its staff and WHO statisticians visited many of the countries concerned to survey the situation preparatory to beginning the project or to assist in compiling information. A central strategic in the contral strat

statustical services office is to be set up in Vienna
Also in co operation with UNICEF WHO assisted in the work of a
BCG pilot station in France and is making arrangements for a BCG labora
tory in Mexico

Advice on streptomycin therapy was given in Czechoslovakia Greece Hungary Poland and Yugoslavia in connexion with supplies of the drug from UNICEF

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Communicable Diseases

The chief efforts of the disease control programmes of WHO for 1949 were concentrated on malaria tuberculosis and venercal infections chiefly because these are serious and widespread problems, which, with present day knowledge and control techniques may be dealt with effectively on a large scale. Many of the projects undertaken in 1949 were of a pre liminary or experimental nature, and the full effects will not be realized for another year or two.

Malaria

Guidance was given to the WHO antimalaria programme by the Expert Committee on Malaria which met in August 3 and by the Expert Committee on Insecticides which met in May 4

The WHO militia consultant assigned to the Far Eastern Mission of the United Nations International Children's Emergency Fund (UNICEF) visited British Borneo India Indonesia the Malayan Peninsula the Philippines and Thailand to advise on malitia problems. Consultant services were also made available to Bulgaria Greece Hungary and Venezuela. Expert advice was given in arranging insect control courses in Italy, in teaching in Venezuela in lectures given in Mexico and the USA and in arranging for a malitia conference to be held in Equatorial Africa in 1950.

Surveys followed by pilot demonstrations were carried out in Afghanistan and Iran a demonstration was carried out in Thailand with supplies furnished by UNICEF and a most successful campaign was conducted in the refugee campa in the Gaza area of Palestine

In Europe WHO and UNICEF assisted in antimalaria projects in Greece Hungary Roumania, and Yugoslavia. A sanitary engineer was sent to Turkey to advise on techniques and programmes for malanacontrol and insecticides were supplied for demonstration purposes.

Four demonstration teams have been operating in India under the technical supervision of WHO and with supplies furnished by UNICEF Although it is still too early to evaluate the results of their work the reports from these teams are encouraging

One of the best examples of the work of an antimalatra demonstration to the inhas been that of the group in Pakistan. This team consists of a WHO malariologist public health engineer entomologist and public health nurse together with personnel supplied by the Pakistan Government. Supplies and equipment have been provided by WHO and UNICEF.

cilin being requested from UNICEF for the treatment of pregnant women and children In India a team established a demonstration project in the Simla (Himachal Pradesh) area. As part of this project large scale training programmes are under way mass blood testing surveys are being conducted and conferences and demonstrations have been organized. Plans for six satellite teams for India have also been made. A survey in Afgha instan revealed a high incidence of venereal diseases and a national anti-venereal disease programme including the reorganization of the laboratory services and the assistance of a WHO/UNICEF demonstration project has been planned for 1950.

In the anti venereal disease programmes in Europe attention has been focused on penicillin treatment schemes and demonstrations were con ducted and/or lectures given in Austria Bulgaria Denmark Finland France Hungary the Netherlands Norway Sweden and Yugoslavia Control projects were in operation with UNICEF supplies and WHO technical assistance in Czechosłovakia Greece Hungary Italy Poland Roumania and Yugoslavia

At the request of Belgium France the Netherlands and Switzerland a preparatory meeting for the establishment of a Rhine River Anti Venereal Disease Commission was held at which a programme for co ordination of venereal disease control among Rhine River boatmen was drawn up in co operation with the International Labour Organization (ILO)? Venereal disease control among seamen was also discussed by the Joint ILO/WHO Committee on the Hygiene of Seafarers which met in December.⁸

Advisory services in venereal disease control were provided to Ceylon Quadrianala Mexico the Philippines and the USA Burma was assisted in a campaign which included the establishment of a modern clinic with laboratory facilities. Technical information was supplied to Zechoslo wakia Poland and Yugoslavia concerning the modernization of the penicillin production plants supplied to them by UNRRA and WHO called a conference on penicillin production which was held in Geneva in February 8

Meetings of the Expert Committee on Venereal Infections 10 and its Subcommittee on Serology and Laboratory Aspects 11 provided technical orientation and assistance Of particular interest at the former was the report of the WHO Symbius Study Commission to the USA 12

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Vriy consultant services were given to Egypt, Poland, Portugal and Yugoslavia in connexion with equipment supplied by UNICEF In Chini i WHO tuberculosis nurse supervised the mass x ray examination of 5 000 children, in addition to assisting in teaching tuberculosis nursing and working on a BCG vicemation comparing

Tuberculin testing has been studied a WHO research team was sent to India to obtain information and a co operative programme to determine the specificity of the tuberculin test and the significance of non specific reactions was undertaken in Iceland under the auspices of WHO and UNICEF

A major concern in tuberculosis programmes is the training of worker—nurses and technicinas as well as doctors. Demonstration projects are a means of providing training facilities, and such a project his been under taken in El Salvador. A WHO consultant visited Ceylon and Burma to survey suitable are is for training centres to be set up jointly by UNICEP and WHO. India where three centres are to be established, was also surveyed for this purpose. In all of these training centres, BCG work will be integrated with teaching activities. In Greece, a WHO public health nurse initiated general training courses in nursing and assisted in organizing a tuberculosis nurse training school, the first of its kind in that country.

Venereal diseases

In its intivenereal disease activities WHO is turning towards the control of treponematoses in general rather than of syphilis alone, and yaws and begle control programmes have been undertaken in regions where these diseases are prevalent. Particular attention is also being given to prenatal, infantile and early syphilis all of which respond to pencillin treatment.

A programme for bejet control was planned for the Eastern Medituranean Region and surveys were conducted in Egypt the Hashemite kingdom of the Jordan Iraq Lebanon Pakistan Syria and Turkey. The Iraq Government has offered to build a faboratory and to provide accommodation for a term if WHO will supply the necessary equipment, and in Syria at was suggested that the anti-bejet project might be combined with the FAO/WHO malaria programme.

Campugns against yaws have been organized with UNICEF and in the Dominic in Republic Haiti Indonesia the Philippines and Thailand UNICEF having already granted \$700,000 for supplies in Indonesia

Following a preliminary survey in Egypt by a WHO consultant a team consisting of a health educator serologist medical officer and nurse was organized. Literature equipment and supplies were procured pen

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Nurses attached to malaria demonstration teams have initiated mater nal and child health programmes in India and Pakistan. Other nurses have been recruited to organize projects in Brunei and Sarawak

In the Palestine refugee camps a diphtheria immunization project was undertaken in which 14000 out of 70000 children between the ages of six months and 14 years were given double injections of alum precipitated toxoid. A maternal and child health programme was carried out under the supervision of a Quaker nurse midwife assisted by four Pales timina assistants and about a hundred local midwives.

A demonstration team consisting of a paediatrician and a paediatric nurse was assigned to India and another team was sent to South Korea to advise on organization of services to start a training institute of child health in Scoul (with UNICEF aid) and to carry out model teaching in social and clinical paediatrics and obstetrics

Technical assistance was given to Finland in connexion with WHO/ UNICEF projects In France special studies on poliomyclits and on the care of premature babes were made and equipment to improve these services was obtained through UNICEF WHO assisted UNICEF in the creation of a Children S Centre in Paris

Mental health

Mental health is a comparatively new field for international co operation.

The Expert Committee on Mental Health which met in August ¹⁸
advised the Organization on the implementation of its mental health
programme.

The Republic of the Philippines was the first government to request aid in mental health and a consultant was sent in November to assist in organizing a programme and specifically to do preparatory work in connection with a proposed WHO/UNICEF project on child guidance clinics.

An expert was sent to Austria to assist in the development of a mental health programme. Israel requested the services of a consultant and Venezuela asked for an expert on psychiatric nursing and social work

WHO co operated in relevant activities of other United Nations groups specifically in the UN Social Commission study on crime and treatment of offenders the UN Study of Homeless Children and various UNESCO protects

Nutrition

The activities of WHO concerning nutrition consisted largely of operations in co operation with the Food and Agriculture Organization (FAO). The Joint FAO/WHO Expert Committee on Nutrition at its meeting in

Other communicable diseases

Other communicable diseases which received particular attention during 1949 include bilbarziasis cholera plague, typhus, and yellow fever Billiarzinsis cholera and plague were studied respectively by the Joint OIHP/WHO Study Group on African Schistosomiasis, 13 the Joint OIHP/ WHO Study Group on Cholera,14 which visited endemic areas in India and Pakistan, and the Expert Committee on Plague, 18 which is the succes sor to a former joint OIHP/WHO study group Rickettsial infections in Africa were considered by the Joint OIHP/WHO Study Group on African Rickettsioses which met in Paris in September Members of the Yellow Fever Panel met in December 16 to examine the present position regarding yellow fever endemicity and to advise the Expert Committee on Interna tional Enidemiology and Quarantine in its drafting of new sanitary regulations

Emergency aid was given to Afghanistan in an outbreak of louse borne typhus and to India in a poliomyclitis epidemic through the supply of iron lungs and technical information. A consultant nurse and physiothera pist will be sent to assist in the organization of poliomyelitis research and of rehabilitation services

Physical, Mental, and Social Well Being

Maternal and child health

The Expert Committee on Maternal and Child Health met in January in to advise the Organization on its programme relating to these services Full time regional advisers were attached to the Special Office for Europe and to the South East Asia Regional Office and plans were made to attach others to the Eastern Mediterranean Region and to the Region of the Americas

Consultant services were given to Afghanistan British Borneo, Ceylon, Egynt Lebanon Malaya Pakistan, the Philippines and Thuland several of these countries, preliminary surveys were made in preparation for joint UNICET/WHO projects An expert on child health was sent to Ecuador to help organize the relief programme following an earthquake and a consultant was provided to advise on a large scale antipertussis immunization campaign in the United Kingdom

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sent to Egypt and to the Republic of the Philippines in the former country a special study of the areas in which biliharziasis is prevalent was started in order to ensure proper safeguards against the disease in places where irrigation projects are being undertaken

Insect control programmes were planned in co operation with UNICEF in British Honduras Costa Rica El Salvador Guatemala Honduras and Nicaragua

Assistance was given to Iran in recruiting trained sanitary engineers for a proposed national sanitation programme and in Ethiopia aid in training personnel was instrumental in achieving notable improvement in sanitation conditions

Health education of the public

Activities with regard to health education of the public were of a more or less preliminary nature WHO experts visited France India and the United kingdom Health educators were assigned to several demonstration projects such as those in Egypt and Haiti

Nursing

The Nursing Section of the Secretariat was organized during the year and an Expert Committee on Nursing was established ²² Nursing in structors assigned to institutions in Ethiopia Greece and India assisted in training programmes WHO public health nurses were attached to demonstration projects where they engaged in training as well as in clinical activities

Professional and Technical Education

One of the most serious problems facing an organization concerned with promoting world health is the lack of adequately trained personnel WHO has attempted to deal with this problem by providing guidance and stimulus to educational programmes by aiding in the collection and dissemination of information and by direct assistance in the form of per sonnel services (consultants teachers etc.) fellowships and provision of medical literature supplies and teaching equipment

WHO activities relative to professional and technical education in 1949 included assistance in directing hospital services and training surgeons and auxiliary personnel in China training medical auxiliaries in Ethiopia establishing a state medical library and medical documentation centre in Prague and Copen hagen and planning public health courses in Lebanon and the Nether lands an advanced biochemistry training centre for Eastern Europe at

^{**} Chro 11 Id Hith Org 1950 4 113

October 19 endorsed the WHO programme and recommended specification on endemic goitre and malignant malnutration (kwashiorkor)

Field activities in nutrition were just beginning by the end of 1949 Joint projects with UNICEF are being planned for Costa Rica El Sal vador Honduras and Nicaragua. In India Pakistan and Syria FAO has been co-operating in projects in connexion with malaria control programmes.

In the Polestine refugee camps, a survey of nutritional needs was made and improvements were effected. WHO was represented at meetings on nutrition problems in Italy and expert assistance was given to Guate mala and to the USA where a consultant on Vitamin B₁₂ and the anaemas conducted seminars on these subjects.

Organization of Public-Health Services

One of the chief objects of WHO is to assist governments in developing efficient health services. Activities which aim to accomplish this object are described under the headings of public health administration environ mental sanitation health education of the public and nursing

Public health administration

A staff member from the Regional Office for the Eastern Mediterranean visited Israel Lebanon Pakistan and Syria to discuss existing services and ways of establishing satisfactory public health administrations. A consultant was supplied to Turkey to aid in the development of national health institutions. Ceylon has requested the assistance of a laboratory specialist in the development of a medical research institute. In Italy WHO co operated with the Italian Government and the Rockefeller Foundation in a project which investigated public health services and mapped out a programme for improvement.

Environmental sanitation

A short term consultant made preparations for the first session of the Expert Committee on Environmental Sanitation which met in September 11 to advise the Organization on environmental sanitation problems and projects Consultant services were provided for the Italian Government health survey mentioned above and to the USA for advice on the collection and disposal of garbage and refuse Sanitary engineers were

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During the year special epidemiological studies were made of yellow fever plague cholera smallpox African rickettsioses bilharziasis trachoma, poliomyelitis influenza rabies and brucellosis

Health Statistics

The Expert Committee on Health Statistics ⁵ met to discuss methods of improving medical statistical services so ⁴s to facilitate comparability of data on an international scale. Acting on the recommendations of this committee the Second World Health Assembly approved an expansion of the WHO programme on health statistics and the necessary preparations to effect this expansion have been undertaken.

Volumes 1 and 2 of the Manual of the International Statistical Classification of Diseases Injuries, and Causes of Death were published in English during the year

Therapeutic Substances

Technical services relative to therapeutic substances include (1) biological standardization (2) unification of pharmacopoeias and (3) study and establishment of regulations concerning drugs liable to produce addit ton Decisions and recommendations of the Expert Committee on Biological Standardization ⁸⁴ the Expert Committee on the Unification of Pharmacopoeias ¹⁵ and the Expert Committee on Drugs Liable to Produce Addiction (formerly the Expert Committee on Habit forming Drugs) ¹⁵ have been reported in previous issues of the Chronick and their reports have been or will be published in the World Health Organization Technical Renort Series

Co ordination of Research

Important developments in activities concerned with the co-ordination of research were realized in 1949

The World Influenza Centre established at the National Institute for Medical Research London in 1948 had the opportunity of studying virus strains sent to the Centre following the influenza epidemic of 1948/49 ³² Although the Centre was able to obtain valuable information from collaborating laboratories there is great need for information and newly

Wrocław, Poland and the development of the Institut d'Hygiene of the University of Geneva into un international training centre

Fellowships

The WHO fellowship programme was greatly expanded during 1949. In all 207 fellowships were granted to individuals and to groups from 35 countries 104 awards being made to 15 countries in Europe 16 to 3 countries in the Western Preific 36 to 4 countries in South East Asia 35 to 8 countries in the Eastern Mediterranean, and 16 to 5 countries of the Americas. The subject for which the largest number of fellowships was awarded in all regions was communicable discusses the total being 91 other subjects for which a considerable number of awards was made included public health administration maternal and child health, and surgery

In addition to awarding these fellowships WHO administered 27 addition

tional ones financed by UNICEF

TECHNICAL SURVICES

The technical services of WHO comprise those netivities carried out at Hendquarters which are concerned with providing governments with technical information on international aspects of diseases and public health. They include work on epidemiology, health statisties and therapeutic substances the coordination of research and editorial and reference services.

Epidemiology

In administering the international sanitary conventions WHO success fully settled a number of international quarantine matters out of court Revision of these conventions and their compilation into a text of international sanitary regulations is proceeding under the guidance of the Expert Committee on International Epidemiology and Quarantine 22

The epidemiological information service was expanded by the establish ment on a permanent basis of the epidemiological radiotelegraphic bulle tin which is broadcast duly from Geneva. Epidemiological intelligence stations in Singapore, Alexandra and Washington have assisted in collecting and disseminating information for these broadcasts and for publications. Relevant publications include the Epidemiological and Vital Statistics Report twelve numbers of which were prepared during 1949 and the Weekly. Epidemiological Record.

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FIG 14 WHO IN THE FIELD





Fig. 2. Tube culosis survey in Egypt. WHO — ay co sul tant super vising mass rad ography eramination.



Malar a control in East Pakista Sea ching for mosquito larvae





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isolated strains to be sent more promptly. An unofficial conference or influenza, organized by the Centre, was held in London in July, specialist discussed international collaboration, giving special attention to the possibility of obtaining greater uniformity in the diagnostic techniques used in different laboratories. During the year, workers from various countries in Europe and from Egypt, India, and the USA visited the laboratory at the Centre to study techniques.

A Tuberculosis Research Office was established in Copenhagen in February 1949. This office is particularly concerned with the mass BCG vaccination campaigns being carried out by the Joint Enterprise Members of the Research Office staff are attempting to elaborate a uniform system for analysing and presenting the data gathered from these campaigns.

By the end of 1949 the World Salmonella Centre, established at the State Serum Institute in Copenhagen and maintained by WHO, was colla borating with 31 regional salmonella centres—It had supplied laborations with 2 059 test strains and 667 ampoules of test sera, amounting to about five litres of serum and had received for diagnosis 151 cultures, among which there were several new types—which were analysed and descriptions of which were published

Editorial and Reference Services

Publications

Because of budgetary limitations the output of publications was less than had been planned. The total number of pages published was 6,802 of which 258 were in Spanish 296 in Russian and the rest in English and French.

During 1949 a great proportion of the WHO publications were distributed free of charge but despite this free distribution and the lack of publicity for the publications sales of the Bulletin Chronicle, and Digest showed a satisfactory increase

By the end of the year, the total number of medical and health periodicals with which WHO publications were exchanged amounted to 781

Library and reference services

A progressive increase in the work of the Library reflected the development of the technical activities of the Organization

A considerable part of the Library's resources was devoted to the preparation of orders for medical literature on behalf of requesting governments which often required prolonged search in bibliographical reference works

FIELD





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Fig Maternal and child health in India Indian v Mage HO ; redistric nurse in an



Co ordination of medical abstracting

During 1949 WHO actively supported UNESCO activities in the co-ordination of medical and biological abstracting and indexing services both by participation in meetings and by a financial grant.

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In evaluating the accomplishments of 1949 the Director General's report warns that the work accomplished will not be seen in true per spective until the many tasks still ahead have been completed

These tasks will have as their objective health as defined in the Organization a Constitution—a state of complete physical mental and social well being—and few of us probably yet realize the full significance of all the three elements of tips definition. Health as a state of mental and social well being must be sought by most people today in a general environment which has lattle resemblance to that in which their forefathers lived. The attainment of health in these two senses must be measured in terms of the adaptability of the individual—and of groups and autoins—to change in a world of ever more powerful acroplance of radio films and television and of weapons of war of a terrible efficacity. Progress in international understanding in good will and co-operation is today not only something good and desirable in itself—it has become a prerequisite to surrival."

THIRD WORLD HEALTH ASSEMBLY

Programme of Work

The Third World Health Assembly meets in Geneva on 8 May 1950. In the Assembly which is the supreme authority of the World Health Organization all the Member States are represented with equal rights. The Assembly meets each year in order to draw up the programme and the budget of WHO and to decide all questions concerned with the polecy of the Organization. It appears appropriate to summarize the more important problems which will call for its attention this year.

Constitutional and Legal Questions

As in former sessions the Assembly must examine apart from the technical questions which form the principal concern of WHO a certain number of problems of a legal and administrative nature WHO which is only in its third year of existence has been able to profit by the experience of the international health institutions which preceded it however its

FIG 11 14 WHO IN THE FIELD



Fig. 11. Tuberculosis contr. I in Pakistan Tuberculin testing a child in Karach



Fig. 19 Tuberculosis control in Yuycs Performance of a Moro test in the v of Gnilan



Fig. 1.3 M intal health consultant in the Philippines Dr. E. Krapt lecturing to the Philipine Public Health Association



Fig. 14. N. dical lenvices for Palestine re WHO medic i on per su lenvising the bulatines

The programme approved by the First and Second Health Assemblies based on a list of priorities in the forefront of which figured the control of tuberculosis malaria and venereal diseases environmental santiation and maternal and child health. The assigning of priorities a task which will also devolve upon the Third Health Assembly is always a delicate procedure requiring the balancing of the practically unlimited health needs of the world against the relatively modest resources available. A danger is that more activities may be included in the programme than can be carried out effectively with a restricted budget. In fact, for financial reasons it will not be possible to carry out in 1950 all of the activities approved by the Second Health Assembly.

The Third Health Assembly may find some difficulty in reconcining the destrability of the Organizations taking action in various fields with the necessity for utilizing the available budgetary resources to the best advantage. However unlike the preceding Assemblies it can profit from experience acquired during a whole year of activity. To assist it in its task it will have at its disposal two valuable working tools. the Annual Report of the Director General for 1949 which records what has been accomplished and the document submitted by the Director General under the tutle of Proposed Programme and Budget Estimates for the Financial Year 1 January 31 December 1951 which tells what remains to be done. It will also be able to draw inspiration from the reports of the Executive Board on its fourth* and fifth *sessions

The Assembly will also have to take decisions of a technical nature and recommend the use of certain presentite or therapeutic methods for combating disease. This task will be relatively easy in the case of methods which have proved themselves such as the use of penicillin for the treatment of venereal diseases or of DDT for the control of malaria. In other subjects however there may be controversy regarding the effectiveness of various methods. Thus in the case of rabies the Assembly will have to decide whether or not it is advisable to sponor trials of a new serum which is intended to replace or reinforce anti-rabies vaccine.

However before examining in detail the technical questions included on the agenda the Assembly must decide whether it is desirable for it to adopt two programmes concurrently the one for a year and the other for a long period. There is no doubt that the drawing up of a long term programme would give WHO more confidence and would grewtly contribute to awakening the interest of the governments and institutions destined to benefit from its services as well as strengthering their faith in the effice twents of the methods. These advantages and that of continuity of action

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activities extend to fields in which international co operation has not been exercised until now, and, moreover, its Constitution gives it execute powers which the former health organizations did not possess

In the forefront of the constitutional problems comes that of representation on the Executive Board, a body consisting of 18 persons designated by as many members elected by the Assembly. The authors of the Constitution felt that the method of representation adopted would enable the decisions of the Assembly to be carried out by persons technically qualified in the field of health (Article 24) rather than by delegates following the instructions of their government. There have however, been differences of interpretation as to the functions of the Board, and for this reason one Member State has proposed an amendment of Article 24 of the Constitution. According to the terms of this amendment, which appears on the agenda of the Assembly, the Board would consist of 18 Member States who would appoint persons to serve as "representatives on it."

Another important problem which the Assembly will have to settle is that of the frequency of its regular sessions. Certain Members would prefer the Assembly to meet only every other year pointing to the resulting economy in time and money and to the advantages arising from a long term planning of the programme of work and of the budget. On the other hand, a delegation by the Health Assembly of its powers for a longer period might be considered by some Members as unduly limiting their opportunities of contributing to the work of the Organization.

Problems connected with the membership of certain States, the admission of new Members or Associate Members 1 the election of members of the Executive Board and the notice of termination of the Rome Agree ment of 1907, which established the Office International d'Hygiène Publique, are all of the same type A solution will also have to be sought for the problems resulting from the decision of certain States to consider themselves no longer Members of WHO especially as concerns the proper distribution of financial responsibilities among the Members³ and the calculation of the two thirds majority required for certain ratifications

Technical Questions

The Assembly will devote most of its time to medical and technical problems. In priticular, it will have to decide which discusses lend them selves to action on an international scale and what methods of combatant them are most effective and economical.

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Assembly will have to review all the concrete problems raised in the different fields by the co-operation of WHO with each of the international organizations. The participation by WHO in the programme for technical assist ance for economic development of underdeveloped countries which will involve reciprocal relationships with many different agencies will create an importative need for an effective machinery of co-ordination.

Finally co-ordination includes a negative aspect the international organizations must endeavour to avoid multiplication and overlapping of programmes This question also appears on the agenda of the Third Health Assembly

RELATIONSHIP OF HUMAN AND SWINE INFLUENZA

Swine influenza was apparently unknown before the great pandemic of human influenza in 1918 and it is believed that the human virus became adapted and fixed in swine at that time. In a series of studies in the 1930s by Dr R E Shope at that time with the Rockefeller Foundation it was shown that the swine lungworm is the carrier of the swine influenza virus and transmits the virus through ova which happen to be laid in the lungs of pigs during or immediately after an attack of swine influenza. These infected ova are swallowed by earthworms which in turn are eaten by pies The ova are liberated in the pigs intestine and migrate to the lungs where they develop into adult lungworms. During all this time which can last from one month to three years the virus is present in a masked form and reveals itself only when a susceptible pig harbouring these infected lung worms is subjected to what would ordinarily be a fairly innocuous stimulus eg a sudden change in weather Symptomatic swine influenza occurs when along with the latent virus infection a secondary bacterial micro organism the widespread but usually harmless Haemophilus influen-ae suis is present and sudden climatic changes intervene such as occur in the autumn. The virus and bacterial organism being widely seeded in pigs in a locality causes the striking picture of whole herds of swine in different farms being almost simultaneously affected with symptomatic swine influenza after a sudden cold or rainy spell

The epizootiology of swine influenza is much better understood than is the epidemiology of human influenza. For example it is not at all clear where the inter epidemic reservoirs of the human influenza virus exist. There are at present no grounds for drawing an analogy between the heliminthic reservoir as found in swine influenza and a similar parasite affecting man. The similarities of certain strains of swine influenza virus.

were realized by the Second Health Assembly and led it to request the Board to draw up a long term programme The Board has completed this task and will submit concrete proposals to the Third World Health Assembly

It may be anticipated that the elasticity of the general programme proposed by giving the Assembly the power to defer the implementation of certain parts of the annual programme from one year to the next will also make it easier to keep the latter programme within the limits of the budget

Financial Questions

The programme and the budget represent, as it were two aspects of the same problem. It is for the Assembly to decide whether the proposed budget of \$7,300 000 will enable WHO to carry out in 1951 the annual programme which it will have adopted and to apportion the amount among the various activities planned.

Along with the budget, the Assembly will have to examine the Financial Report, I January 31 December 1949 ¹⁰ and, in adopting it, to approve the financial management for the past year. Other questions of a financial nature on the agenda concern the appointment of the external auditor for 1951 the status of contributions for each of the years 1948, 1949, and 1950, the establishment of the scale of assessments for 1950 and 1951 the working capital fund and the possible setting up of a world health defence fund

Liaison and Co ordination

The activities of WHO extend to such varied fields that their success depends in large measure on the reception given to these efforts by other international organizations as well as on the help which the latter are disposed to give In return, WHO must reciprocate when other groups wish to undertake tasks which because of their nature or extent, are beyond their province and powers but which can be successfully carried through by calling international co operation into play

Liaison and co ordination raise structural and functional problems Among the structural problems are such questions as the desirability of establishing national commissions of WHO the division of responsibilities for joint activities with the Food and Agriculture Organization and other United Nations bodies and the principles governing the admission of non governmental organizations to official relations with WHO Co ordination and laison are dynamic rather than static in nature however. The

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These conferences contributed significantly to the technical development and standardization of serological methods and antigens in the diagnosis of syphilis. It has been recognized that conferences of this kind are the only means of comparing efficiency in test methods of which as many as twenty different ones were compared at the past conferences At the same time such conferences offer a rare opportunity for exchange of technical information among test authors

The Interim Commission of the World Health Organization (1947) and its Expert Committee on Venereal Diseases pointed out the necessity of holding seroidagnostic standardization conferences. The First (1948) and Second (1949) World Health Assemblies emphasized the need for further standardization of serodiagnostic laboratory procedures in an effort towards greater uniformity in serological test performance. The Subcommittee on Serology and Laboratory Aspects (of the WHO Expert Committee on Venereal Infections) considered at its first session a notline for a conference to be held in 1951 or 1952. This outline was approved at the fifth session of the WHO Executive Board ². The plan ning of the conference has proceeded and Dr P Krag formerly Assistant Director of the State Serum Institute in Copenhagen has accepted assign ment with WHO to direct the conference the site of which will be announced later.

In extending to authors of test methods an invitation to participate the conference the Director General of WHO lists the following reasons calling such a conference

- 1 The continued use in all parts of the world of a great variety of test methods which often give divergent results
- 2 The appearance of new tests which were not evaluated at previous international laboratory conferences
 - 3 The development of purified cardiolipin lecithin antigens (Pangborn)
 - 4 The discovery of the treponema immobilization reaction (Nelson)
 - 5 The general need for determining the most practical serodiagnostic nethods for mass serological examinations

A suitable number of participants will be selected by WHO on the of advice given by the Subcommittee on Serology and Laboratory aspects—scientific geographical and other factors being taken into account unity an author serologist or a serologist designated by him will be allowed to perform the author's procedure during the conference each author crologist can enter several procedures but only one may be accepted

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with those of human influenza virus are so great however that comparative studies of these two viruses are strongly indicated for the purpose of shed ding light on the influenza problem as a whole. It is known, for example that swine are susceptible to human influenza strains of virus and it is possible that they may play some role in the epidemiology of human influenza.

In order to stimulate the clarification of this entire problem the AIVth International Veterinary Congress which met in London in August 1949 passed a resolution requesting the World Health Organization to undertake a comparative study of human and swine influenza virus at its World Influenza Centre in London Dr C H Andrewes, in charge of the World Influenza Centre agreed whole heartedly to the request and arrangements have been made to submit strains of swine influenza virus isolated in various parts of the world to Dr Andrewes. Since there are several influenza like infections in pigs servening of the various agents involved in these diseases will be done at the US Public Health Services Veterinary Virus Laboratory in Montgomery Alabama and in Professor W I B Beveridge's laboratory at Cambridge University After screening to ensure that swine influenza virus is actually involved the strains will be submitted to the World Influenza Centre for further study The screening procedure will also give an opportunity to define more clearly the etiology of different influenza like diseases in swine the most important of which is Ferkelgrippe a cause of great losses in pigs on the European continent

The veterinarians working closely with Dr Andrewes on this problem are Professor W I B Beveridge Cambridge University, Professor T Dal ling Chief Veterinity Officer United Kingdom Dr H W Schoenine Chief of the Pathological Division US Bureru of Animal Industry Dr J H Steele Chief of the Veterinity Public Health Division US Public Health Service and M M Kaplin Veterinity Officer WHO Professors Beveridge and Dalling and Dr Schoening were designated to carry out this work by the Permanent Committee of the XIVth International

Veterinary Congress

INTERNATIONAL CONFERENCE ON THE SERODIAGNOSIS OF SYPHILIS

International serodiagnostic conferences were held by the League of Nations (1923 and 1928 in Copenhagen 1930 in Montevideo) and by the US Public Health Service (1941 in Washington). In 1939 a similar conference planned in Copenhagen was cancelled because of the outbreat, of war

These conferences contributed significantly to the technical develop ment and standardization of serological methods and antigens in the diagnosis of syphilis It has been recognized that conferences of this kind are the only means of comparing efficiency in test methods of which as many as twenty different ones were compared at the past conferences At the same time, such conferences offer a rare opportunity for exchange of technical information among test authors

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Preliminary applications should be received by WHO not later than 15 July 1950. These applications should include the name position and laboratory address of the applicant together with other relevant personal and professional information, lists of scientific publications of the author a detailed statement of the advantages offered by the special test and, in so far as possible the names of laboratories at present using the paracular technique.

Notes and News

Major General Sir Sahib Singh Sokhey

Major General Sir Sahıb Singh Sohher formerly Director Haffkine Institute Bombar has been appointed Assistant Director General of WHO Dr Sohhey who gridus of in science (physics and chemistry) from the Punjab University in 1907 studied medicar at Edinburgh University where he graduated in 1911 and in 1912 also obtained th degree of Master of Arts. He then studied tropical medicine and hygiene in London and later took postgraduate courses in London and Toronto and at Trinity Collect Cambridge Johns Hopkins Hospital Baltimore and Harvard University. From 19,3 to 1925 he held a Rockefeller Foundation Fellowship

FIG 15 SIR SAHIB SINGH SOKHEY



In 1913 Dr Sokhey joired the Indian Medical Serve, having obtained first place in a competitive examination in Lordon During the first World War he served with the Army in France Egypt and Mesopout in 1925 he was appointed Assistant Director of the Haff kine Institute, where he wis in charge of the Department of Biochemistry he became Director of the Institute in 1932.

Under his directorship the Institute—which is the leading medical research institute of India—underwent great eviamison the number of scientification of the properties of the

moley and Department of Pharmacology—each under the charge of an Assistant Director were added to the three original departments — Department of Vaccines Department of Rabbes and Department of Biochemistry. The Institute is now considered one of the best equipped and the most active laboratory of India for medical research and the production of the urgently needed biological products and drugs

Dr Sokhey has made many important contributions to the work of the Institute Illis early research was devoted mainly to studies on metabolism on the neutralization of mineral acids by the body on the effect of insulin on calcium metabolism on fat metabolism in sprue on metabolic rate in normal Indian men and women and on haems todogy. After becoming Director his work included the development of quantitative experimental methods for studying plague infection plague infimition plague information in plague infection the development of a biological method for the assay of plague vaccine the preparation of a new plague vaccine and a new anni plague into the interactive action of the properties of a method sea and including the has worked out a method for the biological assay of cholera vaccine and has prepared a new cholera vaccine and developed large scale methods of producing plague and cholera vaccines. Under his direction large scale methods of producing plague and cholera vaccines. Under his direction large scale methods of producing plague and cholera vaccines. Under his direction large scale methods of producing plague and cholera vaccines. Under his direction large scale methods of producing plague and cholera vaccines. Under his direction large scale methods of preparing antimatarial and salfa drugs have also be n developed at the

WHO Antimalaria Activities in Pakistan

In a report received at WHO Headquarters Dr G Gramicoal leader of a WHO making discussion with the making discussion of t

Entomological observations have shown that DDT contined to be effective as to seen months after spraying. A remarkable discovery is that these results were obtained in the sprayed areas deeptier replacement and removation of most of the houses. The DDT deposit on the untouched articles and walls was sufficient to protect the whole house against mosquitors. From these observations it is inferred that the customary repairs to houses and cowsheds at the end of the rainy season are unlikely to obstruct the success of antimalizing operations.

Since a proportion of the enlarged spleens in the sprayed areas are probably due to prevalance of kala agar arrangements have been completed for a simultaneous investigation of this designs. The Government of East Bengal has assigned two doctors and two health assistants to the WHO team and the former are now receiving the necessary in structions in kala agar contilary tube fests.

Another activity of the WHO team in the forthcoming malaria season will be to determine the effect of DDT spraying on agricultural production in terms of possible increase in labour capacity resulting from improvement in health of a malaria free population. An agricultural officer has been attached to the team by the East Bengal Government to obtain rightle statistical data on this unestion.

BCG Vaccination in Pakistan

Since the beginning of the BCG vaccination campaign organized by the United Nations International Children's Emergency Fund with the technical assistance of

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Director of the Institute in 1912.
Under his directorship the
Institute—which is the leading
medical research institute of
India—underwent great expan
son the number of scientific
workers rose from 10 to 50
and the annual budget was in
creased from Rs 200 000 to
3 000 000 Six new departments
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Diacetylmorphine is considered as one of the derivatives of morphine most likely to result in addiction. Although it is no longer used in 24 countries it is still used in others Furthermore the production of diacetylmorphine continues to increase Justifiably alarmed by this situation the Expert Committee on Drugs Liable to Produce Addiction * stressed the importance of obtaining detailed information on the reasons for employing this substance in certain countries and in addition on the possibility of abandoning its use. In point of fact, there are other morphine derivatives as well as new synthetic products, which since they have properties analogous to those of diacetylmorphine may induce doctors to cease using this substance

Dr H Fischer Professor of Pharmacology at the University of Zurich Switzerland and member of the Permanent Central Opium Board and of the Drug Supervisory

Body has come to the following conclusions

If one takes into consideration the harm brought about in the world by diacetyl morphine since its appearance, and the thousands of heroin addicts who have fallen victims to the drug the disappearance of diacetylmorhoine from world markets could only be considered as a boon and a step in the right direction

In order to attain the required goal—the complete abolition of heroin—a scientifically and psychologically planned propaganda campaign should be inaugurated to convince doctors and governments the world over that the complete abolition of diacetylmorphine is an urgent necessity in the struggle to curtail the use of drugs which are a menace to public health " 4

Danger of Indiscriminate Use of Streptomycin

The Executive Board at its fifth session held in Geneva from 16 January to 2 February 1950 invited the Director General of WHO to draw the attention of governments to the inadvisability of unrestricted distribution and indiscriminate use of streptomycin The following reasons were given

- In spite of reduced toxicity of new forms of streptomycin, the drug must still be considered dangerous
- 2 Precise knowledge as to its clinical indications especially in pulmonary tuberculosis is still lacking
- 3 The attention of the public may be focused on this drug to a degree out of all proportion to its value in the total campaign against tuberculosis

Second Seminar on World Health

The success of the first Seminar on World Health organized by the World Federa tion of United Nations Associations (WFUNA) and held during the Second World Health Assembly 6 has prompted the planning of a similar gathering to be held in Geneva from 8 to 19 May 1e during the Third World Health Assembly

Participants will be selected through national and student associations affiliated with the WFUNA. Twenty seven medical students and young doctors from nine different countries attended last year's seminar

Although WHO will not be associated officially with the seminar the Organization is giving it full co-operation and moral support and is urging governments to do so as well

Additional information concerning the seminar may be obtained from the World Federation of United Nations Associations Education Commission UNESCO House 19 Avenue Klöber Paris 16e

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WHO 65 014 persons have been tuberculin tested. More than 25 000 were found to be reactors and of the non reactors more than 19 000 have received BCG vaccination

Formation of Antituberculosis Centre at Istanbul

Dr E Berthet tuberculosis officer of the Department of the Isère (France) and a WHO expert consultant has been studying the setting up of an antituberculos programme in co-operation with the Turkish halth authorities ¹ A sum of Effurively 200 000 has been allocated by the Turkish Ministry of Halth to finance the construction of an antitube realised summoristation and training centre in Istinhul The Antituk realises. League of this city will contribute an equivalent sum towards the realization of the project. WHO will provide equipment for the centre, which will be run by a team of specialists from the Organization.

In addition the Turkish Ministry of Health and Dr Berthet have planned a tiber culosis instruction programmic which will be critical out by specialists from WHO and from the Universities of Isianbul and Ankara. These combined measures should enable tube reculosis which at present causes nearly 200 deaths per 100 000 inhabitants in Turky to be effectively, controlled.

Tuberculosis Control in South East Asia

Training and teaching centres for antituberculosis work will be set up in Burma Ceylon India and Thailand under the auspices of WHO and the United Nations International Children's Emergency Fund

Dr. E. McWeeney Aft Geneva on 16 March 1950 to take up the duties of Resional Tuberculosis Consultant for South East Asia. Dr. McWeeney formerly Senior Medial Inspector in the Department of Health of Ireland where he directed the tuberculosis excises is the author of virious papers on the technical and administrative aspects of tuberculosis control.

The construction of centres at Delhi and Patna in India his been financed by the Indian Government a third centre will be set up at Trivandrum in the south west of India with the assistance of Dr W. H. Tytler. WHO consultant on laboratory techniques relating to tuberculosis.²

Modern methods for the presention diagnosis and treatment of tuberculosis will be taught in these different centres to the medical profession and to other technical personnel.

Medical Training Centres in Europe

Centres in anaesthesiology will be established in Copenhagen and Prague under the suspices of WHO Modern techniques of anaesthesiology will be taught to dector from the Scandinium and Central Luropean countries respectively

Other teaching centres will be set up in Poland One of them will be siturted at Wroclaw and will give training in biochemistry the other established at Warsaw will deal with venereal disease control

Use of Diacetylmorphine in Medicine

In a circular letter sent to governments, the medical profession and the authoritis in all countries have been invited to make known their views regarding the necessity of using diacetylmorphine (heroin) in medicine and on the possibility of dispensing with its use

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to whom they give treatment—it is also lutely useless to vaccinate on the basis of the PR $_8$ strain if the epidemic is caused by the FM $_1$ strain " $^{\bullet}$

Politics in International Health Work

Dr E S Rogers Deam School of Public Health University of California Berkeley discusses the political implications of international health work with particular reference to the Second World Health Assembly (at which he was a delegate) in an article published in the Journal of American Dietetic Association Baltimore Md (1950 26 15)

Those of us who are career peop! in public health like to believe that our work is largely removed from political considerations and that there is within the brotherhood of medical science and public health an underlying current of common objectives and friendliness that tends to minimize international differences Nevertheless at would be quite intrealistic to perpetuate the illusion that matters of international health are any longer capable of being isolated from international poli-One cannot truly promote inter national health for example without the free exchange of information between nations This cannot be accomplished fully without free exchange of persons between Similarly matters of world health cannot be solved without the use of materials and supplies. These in turn cannot be procured or distributed through mechanisms that are independent of the problems of international trade and world economics

Our meetings therefore were by no means devoid of outbursts of a political nature as the representatives of nations pockeyed in open forum in committees or in conversations in attempts to reach understanding and to obtain support for those things which they believed to be destrable bometimes there onflicts surged to a considerable degree of heat and accustations quite foreign to the problems of public health were hurl d from the rostrum I am grantified to say

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Elimination of Plague

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lt is uncertain states the editorial in the Medical Officer to what extent wild rodents are concerned in the spread Man generally has little intimate contact with wild rodents but some of them are used for food chiefly hares and rabbits which are known to be subject to infection with Pasteurella pestir Control of hares is considered very important in the southern half of Africa where small local epidemics of plague are reputed from time to time Others of the wild rodents are also known to harbour plague. These though they might not infect man directly might do so indirectly by spreading the parasite to domestic rodents rais and mice Distruction of rets is the main element in suppressing plague where the is carried out vigorously plague does not occur and in places where epidemics of plague spring up a vigorous anti rat campaign soon brings an epidemic to an end Outside the great endemic areas of Eastern Asia plague occurs mainly in ports as we should expect but it has cropped up in various parts of Africa where it seems unlikely that it could have been introduced by rats infected in Asia So there is much evidence to suspect native rodents though also to believe that native rodent spread plague is mild infrequent and of low infectivity to man It may therefore be that eradication o infection in wild rodents which at presen is impossible may be proved not to b absolutely necessary

Ch B M HI k O g 1949 3 69

Two Applications for Admission to WHO

The governments of the Republics of Indonesia and of Viet Nam have applied for membership in WHO and their applications will be considered by the Third World Health Assembly According to the WHO Constitution States which do not belong to the United Nations may be idmitted as WHO Members by a simple majority of th Health Assembly

Associate Membership Requested for Southern Rhodesia

The United kingdom has requested Associate Membership in WHO on behalf of Southern Rhodesin. This request the first of its kind to be received by the Organization will be examined by the Third World Health Assembly.

WHO is the only United Nations agency which grants Associate Membership to territories not responsible, for the conduct of their international relations. According to the WHO Constitution admission is granted by a simple majority decision of the Assembly. The right and obligations of Associate Members in WHO regional organizations were defined last year by the Second World Health Assembly. Associate Members can participate in Assembly and Regional Committee meetings delegates must be technically qualified and chosen from the nature population.

Views on WHO

Influenza Epidemic of the Winter of 1948/49

In a lecture given in Lausanne, summa rized in a recent number of the Journal suisse de Pharmacie Zurich (1950 88 69) Dr G Weisllog gives some information regarding the influenza epidemic of the winter of 1948/49 and stresses the importance of the activities of WHO in this field

The classic strains of influenza virus of the antigen A type are PR, FR4, and Weiss The best known in the B group is the LEE strain. It is recognized as a certainty that only the vaccine special for any particular strain is effective against it. Only a rapid identification at the beginning of the epidemic makes it possible to produce the specific vaccine in sufficient time. In 1948 the World Health Organization set up an influenza centre in London and submitted to its Member States a project for collaboration in this field. The example furnished by last winter se pidemic is very instructive.

In mid December 1948 'n widespread
influenza epidemic raged in the south of
Italy In 30 days the epidemic reached our
frontier From 5 December 1948 to
5 March 1949 8 142 cases were reported
in Switzerland in 25% of the cases
infection by the FM₁ strain was clearly
established An increase in antibodies
due to infection with the LEE virus was
observed in only one patient. This our
results which were obtained indirectly
agreed with those of other workers who
had isolated the FM₁ virus.

The following conclusions can be drawn from the foregoing for setting up observation stations suggested by the World Health Organization can be of very great service a laboratory for research on influenza necessitate evenishe preparations the supply of fertilized eggs and the provision of an incubator satisfying all requirements should be ensured hospitals and physicians should be required to take samples of both the carly and the late sera as well as of the gargings of the first patients.

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(Separate editions in English and in French)

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16	Joint FAO/WHO Expert Committee on Nutrition	l .
17	Joint OIHP/WHO Study Group on African Schistosomiasis report on the first session	To be publish d
18	Joint OIHP/WHO Study Group on Cholera report on the third session	1
19	Yellow Fever Panel report on the first session	Į.
20	Expert Committee on International Epidemiology and Quarantine report on the second session]
21	Expert Committee on Drugs Liable to Produce Addiction report on the second session	9d < 0 10



CHRONICLE OF THE WORLD HEALTH ORGANIZATION

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RECENT AND FORTHCOMING MEETINGS

11 14 Aprıl

WHO Expert Committee on Health Statistics Subcommittee on Hospital Statistics Geneva

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11 15 April	WHO Expert Committee on Antibiotics first session Geneva
17 21 Aprıl	WHO Expert Group on Prematurity Geneva
17 22 Aprıl	WHO Expert Committee on Rabies first session Geneva
18 21 Aprıl	WHO Expert Committee on Health Statistics second session Geneva
20-29 April	WHO Expert Committee on the Unification of Pharmacopoeias sixth session. New York
May	WHO European Health Conference to consider the establishment of a Regional Office for Europe tentatively Geneva
8 May	Third World Health Assembly Geneva
30 31 May	Joint Committee on Health Policy UNICEF/WHO Geneva
1 June	WHO Executive Board sixth session Geneva
August	WHO Expert Group on School Health Geneva
28 August 2 September	Joint ILO/WHO Committee on Occupational Hygiene first session Geneva
September	WHO Expert Committee on Tuberculosis fifth session
September	WHO Committee for the Study of Chemotherapeutics in Tuberculosis
September	WHO Expert Committee on Venereal Infections Subcommittee on Serology and Laboratory Aspects second session tentatively Paris
September	WHO Regional Committee for South East Asia third session Colombo
4-7 September	WHO Regional Committee for the Eastern Mediterranean third session Istanbul
8 September	WHO Regional Conference on Statistics Istanbul
11 16 September	WHO Expert Committee on Mental Health second session Paris
October tenta tively	WHO Expert Committee on International Epidemiology and Quarantine third session Geneva
9 14 October	WHO Regional Committee for the Americas second session Pan American Sanitary Organization Directing Council fourth meeting Ciudad Trujillo

INCREASING PRODUCTION OF ANTIBIOTICS

First session of the Expert Committee on Antibiotics

Antibiotics do not represent merely a momentary or transient phase in the history of therapeutics. Every day the results of current research show how great are the possibilities of treatment with antibiotics and justify the international interest at present being taken in their production Six antibiotics—peniculin streptomycin chloromycetin aureomycin tyrothricin and bacitacin—are already being produced on a commercial scale in a number of countries.

Since penicillin first became widely used for example in programmes for the control of venereal diseases many countries have experienced great difficulty in obtaining it in the quantities required for the general application of this therapy. It has therefore been found necessary to stimulate production of the more important new antibiotics on a national scale.

The First World Health Assembly recognized that

the immediate object of WHO in this field should be to make technical knowledge on penicillin production available to countries contemplating the erection of plants to facilitate procurement of penicillin for countries unable to obtain this and similar drugs. ¹

Since then efforts have been made to put into production the penicillin plants supplied by UNRRA to certain countries 2

Difficulties to be Overcome

The Expert Committee on Antibiotics which held its first session in Geneva from 11 to 15 April 1950³ studied ways and means of giving assistance to countries requiring it in connexion with the drawing up of plans and the installation and operation of antibiotic plants. The com-

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mittee analysed the difficulties encountered in this respect in certain countries and found that they were threefold

- (a) difficulty in obtaining plans or blueprints,
- (b) difficulty in procuring the necessary equipment,
- (c) lack of trained personnel to operate the plants efficiently

With regard to the first point, the committee recognized that governments are obviously free to purchase plans from private firms either in Europe or in the USA, but it recommended that WHO, in collaboration with the United Nations and its other specialized agencies should assist countries which for financial reasons are unable to obtain plans in this way

FIG 1 EXPERT COMMITTEE ON ANTIBIOTICS FIRST SESSION



Left to right (seated round table) Professor S A Weksman Professor M M Janot (Vice Chelrman) Professor R V Christie (Rapporteur) Dr S Sokhey (Assistant Director General WHO) Professor E B Chain (Chairman) Dr Melanie Craipteau (WHO) Professor H Theorell Mme Y Bezoari (WHO)

With regard to the second difficulty the committee stressed that certain items of equipment—at present manufactured in only a very small number of countries—are essential for the efficient production of antibiotics. Such items include Podbielnia extrictors for the production of penicillin and special stainless steel equipment for use in the preparation of streptomycin. In the course of the discussions, the committee considered the risk entailed in the possible use of the extractors for military purposes, it was unanimously agreed however that in the present state of knowledge the extractors could not be used for such purposes. The committee therefore recommended that WHO should do everything possible to assist Member States to procure suitable equipment.

Adequate equipment is of course necessary but it cannot be considered the only indispensable factor. It would be useless to install plants in countries which do not have the personnel to operate them. The lack of highly trained personnel remains the most serious obstacle to the production of antibiotics in several countries. The committee considered that the training of competent personnel is the most important factor in the production problem and devoted much time to a consideration of this subject

Technical Training in Antibiotics

The production of antibiotics is a complex process involving various methods of microbiology chemistry and pharmacology and a new branch of engineering known as microbiological engineering. Such extensive knowledge can only be acquired by teams of research workers and tech micrains who are already well acquainted with the fundamental principles of these various branches of science. At present most universities are unable to provide the comprehensive training required for such highly specialized work. Some provision should therefore be made for the training of specialists in centres which are devoted particularly to research and to study of the technique of antibiotic production.

The committee examined the various possibilities offered by official institutes in Europe and in the USA and recommended that WHO should approach those institutions in various countries which could provide facilities for the training of specialists on an international scale and in particular for the training of WHO Fellows From this point of view the Istituto Superiore di Santtà Rome which has a pilot plant offers particularly favourable conditions. This institute has experimental semi scale and full scale equipment for all stages in the manufacture of penicilin this equipment includes fermentation vats with capacities ranging from 50 to 18000 litres. Microbiological research is carried out along with pharmacological research. The institute will be able to accommodate 14 research workers each year to specialize either in biochemistry and microbiology or in microbiological engineering. The Department of Microbiology of Rutgers University New Brunswick NJ USA could also this year take a few students specializing in microbiology. WHO will negotiate with other institutes in Europe and in the USA on the same subject.

The committee particularly emphasized that such specialist training in antibiotics should be given in centres where the atmosphere is conductive to research. The science of antibiotics is in the process of evolution and new substances will probably still be discovered. Persons intending to specialize in this subject should not only become thoroughly versed in one particular method of antibiotic production but should also acquire the

general knowledge which will enable them to follow the developments in this branch of science and possibly to make contributions of their own On their return to their respective countries, the specialists thus trained would be able to install plants thus obviating the main difficulties which have so far faced their governments. The committee therefore recommended that WHO should allocate fellowships for the training of specialists who, during their training could take part in research and acquire the most up to date knowledge on the production of antibiotics

* . *

Some apprehension was expressed regarding the financial risks which governments would have to face in installing plants whose equipment might soon become obsolete. The committee did not consider that the risk involved would be very great because the equipment required for the preparation of the antibiotics known at present could subsequently be used for the production of any others which might be discovered. Such fears should not prevent governments from immediately taking steps to install such equipment.

Research on Treatment with Antibiotics

Countries where antibiotics are available only in small quantities have a certain advantage. They more easily than others, can group patients for treatment in a small number of centres where antibiotic therapy can b applied under controlled conditions and where the results can be compared with those obtained with other drugs and, also in unireated control groups

The committee suggested that such clinical research should be under taken under the auspices of WHO in areas where antibiotics of proved value are in short supply. Such an experiment would have the added advantage of arousing interest in the use and production of antibiotics.

in countries where they are as yet little known

A list should be drawn up of centres with adequate laboratories and qualified personnel—trained perhaps by means of fellowships. It must be ascertained that the number of patients is sufficient for the results of treatment to be statistically significant. Various institutions, the national medical councils, and some of the WHO expert committees, such as those on tuberculosis and veneral infections should be asked for suggestions concerning the practical application of these projects.

Type-Culture Collections

There is an urgent need for improving the existing system of obtaining type cultures capable of producing antibiotics. With the development of production there will be an increasing demand for collections of type-

cultures whose properties are kept constant and whose antibiotic producing capacity is duly controlled Existing centres responsible for type culture collections should be approached The committee recommended that WHO should ask these centres whether they would be willing to serve as official centres for the collection and distribution of certain strains of anti-biotic producing organisms and of antibiotic sensitive cultures for testing antibiotic activity

Abstracts

The enormous number of scientific publications dealing with antibiotics is such that it is practically impossible for workers in this subject to keep abreast of them all. The committee therefore recommended that the Director General should ask the Co ordinating Committee on Abstracting and Indexing in the Medical and Biological Sciences to examine the most effective means of establishing a rapid and comprehensive abstracting service for antibiotics—the abstracts in question should be issued in the form of separate fascicles

Symposium and Congress

The committee discussed the advisability of organizing in 1951 a symposium at which certain aspects of the problem of antibiotics would be discussed and in 1952 a general congress on antibiotics. It recommended that these two proposals should be submitted to the Council for the Co ordination of International Congresses of Medical Sciences.

STREPTOMYCIN AND TUBERCULOSIS

Experts from ten countries 1 met in Paris in February 1950 under the auspices of the United Nations International Children's Emergency Fund (UNICEF) and WHO to compare results obtained in the treatment of (OMICEF) and WHO to compare results obtained in the treatment of tuberculous meningitis by streptomycin. Reports were submitted particularly by countries in which there are streptomycin treatment centres and which receive supplies of streptomycin from UNICEF². Various topics were discussed such as the diagnosis of tuberculous meningitis the routes by which antibiotics may be introduced into the meningeal spaces posology neurosurgical operations examination of the cerebrospinal fluid the con centration of streptomycin in the body fluids electroencephalography

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accidents due to streptomycin, and treatment with combinations of druss All of this work showed that important results had been achieved which permitted a deeper understanding of streptomycin therapy and, at the same time, raised new questions

A working party dealt particularly with the implementation of the programme outlined jointly by UNICEF and WHO It recommended that streptomycin should be reserved for the treatment of tuberculous mening its miliary tuberculosis, and primary infections when generalization may be imminent; the treatment of other forms of tuberculosis in children which are amenable to this therapy could however be considered in case of necessity

It would be desirable to establish streptomyon subcentres to make this treatment available to a greater number of cases. But care must be taken to keep the standard of treatment high and to have it administered by specialized personnel. In this connexion the working party urged govern ments to avail themselves of the offer of fellowships for the training of specialists in streptomyon therapy. Close collaboration should be established between the centres in each country and between those in different countries.

Some of the recommendations concern the work of responsible staff in the streptomycin centres themselves

Variations in the potency and toxicity of streptomycin have been noted Such variations should be reported without delay, together with details useful in the study of this problem

A need for a uniform method of recording results has been felt. In addition, the centres should submit quarterly reports indicating the total number of cases treated the number of children under treatment at the beginning and at the end of the period under consideration, the number of those who began or who finished treatment during this period and the number of deaths recorded. An individual form for each case treated was proposed

The working party expressed the desire that the countries who receive streptomycin through UNICEF should adhere to the standards established with regard to diagnosis and treatment. It adopted general recommendations for the current treatment of tuberculous meningits in children and concerning its detection at an early stage it recommended the combined use of streptomycin and other antibiotics.

EXPERTS ATTENDING THE STREPTOMYCIN MEETING

Professeur E Bernard Paris France Professeur M Bernheim Lyons France Dr A Breton Lille France Professor J Chaptal Montpellier France Professor C Choremis Athens Greece Professor C Cocchi Florence Italy Professor G Daddi Rome Italy
Dr M Dantels London United Kingdom
Professour R Debré Parts France.
Professour R Du Boss Brussès Belgium
Professor D S Eleftheriou Athens Greece
Dr G Pancon Zuruch Switzen
Dr J Fouquet Parts France
Professour P Graud Marseilles France
Dr J Houstek Prague Crechoulowkin

Professor E. Lorenz Graz Austria Dr A. Monbrun Paris France Dr P. Mozziconacci Paris France

Dr R Neubauer Belgrade Yugoslavia Dr O Ruziczka Vienna Austria

Dr Honor Smith Oxford United Kingdom Dr K Todorović Belgrade Yugoslavia

Dr K Todorović Belgrade Yugoslavii Dr I Vanaanen Rovaniemi Finland

Dr O Wasz Hockert Helsinki Finland Dr A Ylppo Helsinki Finland

INTERNATIONAL COMPARABILITY OF HOSPITAL STATISTICS

Mortality statistics are a valuable source of information but they give only an incomplete picture of the health conditions of a population an accurate picture requires statistics on both fatal and non fatal types of illness. Interest in the methodical preparation of morbidity statistics goes as far back as the middle of the last century. However progress in this field has been very slow hampered as it was—among other factors—by the absence of a suitable list for classifying diseases. The recent adoption by WHO of an international classification covering both diseases and causes of death will permit full use of the ever increasing volume of mor budity data.

Complexity of the Problem of Morbidity Statistics

Before any statistical classification can be applied to basic data fundamental concepts must be defined and rules for the preparation of statistics formulated.

Although classification methods for mortality data are based on long experience the systematic compilation of morbidity statistics is of fairly recent date. Moreover the question of morbidity statistics is much more complex than that of mortality statistics. In the case of multiple causes of death it has been decided to select the underlying cause for primary tabulations in multiple morbidity one or the other cause might be of special interest depending on the type of information desired. Further more in mortality statistics the underlying cause is selected irrespective of other stages in the development of the morbidity process prior to death in morbidity statistics the interest is concentrated mainly on the phase of the disease process which is responsible for the period of illness

The Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death 1 sums up as follows the complex problem of morbidity data

Morbidity is far less definite than mortality and represents a dynamic rather than a static phenomenon. The occurrence of death is a definite event and the number of such events can be counted. An illness on the other hand varies from a minor deviation from normal health, which does not interfere with the performance of regular dutes or activities to the chronic case which cells for beddied or custodial care for an indefinite period. Furthermore, an individual afflicted with a disease may experience only one period of illness during the interval of observation or may have repeated illnesses from the same disease. In addition during the same period of illness an individual may suffer from two or more distinct diseases. Thus, the basic problem as to what is to be counted becomes very complex and it can be easily seen that the application of the present classification to morbidity statistics cannot be faid down as precisely and relatively simply as in mortality. The application will vary depending on the kind of morbidity experience to be studied and on the purposes to be served by the statistics.

Unification of Hospital Statistics

'Hospitalized illness represents that part of the total morbidity in the general population which receives hospital care, it is the admission for hospital services and treatment which defines hospitalized illness. Thus its concept is free from the uncertainty in defining illness in general which is due to the difficulties of obtaining a clear cut distinction between illness and health. However, relatively simple though this concept may be, many methodological aspects involved in general morbidity statistics are also common to hospital statistics.

There are at least three basic statistical groups to be considered in hospital morbidity statistics, i.e. hospitalized individuals (whether for the first time or not) number of admissions, and number of different morbid conditions comprising the total hospital morbidity. An individual may be admitted to a hospital one or more times during a certain period, and his case may give rise to one or more diagnoses counted in the total hospital morbidity. In cases of multiple morbidity, there may be a condition which describes best the necessity for hospitalization and which constitutes the index case in the patient's hospital record, other conditions may be either independent of this cause or related to it. A patient repeatedly admitted to a hospital during a certain period may have each time a different illness or may be hospitalized repeatedly for the same moroid condition. Conse quently, hospitalized illness may be analysed as a person concept in terms of individuals or as a patient" concept in terms of admissions. In the first case, persons admitted several times may be studied from the

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standpoint of determining whether the repeated hospitalization is due to the same or to different complaints. Hospital morbidity can also be exa numed in terms of the condition which brought the patient to the hospital or in terms of total morbidity. In the latter case multiple morbidity must be qualified as to the relationship to the principal diagnosis in order to allow an unduplicated count of morbid entities.

The principal and contributory diagnoses present another thorny problem to the statistician. Medical records often contain several diagnoses. All the conditions in a case of multiple morbidity may have contributed to the necessity for hospitalization. However, there can be selected a principal diagnosis which is a major factor in the illness and responsible for hospitalization, the other diagnoses are contributory whether they are related to the principal diagnosis or not

The Manual for Coding Causes of Illness (US Public Health Service Miscellaneous Publication No 32 Washington 1944) defines the principal diagnosis as the one which was chiefly responsible for the period of hospitalization 1e the one that led the patient to seek hospital care. This Manual also gives descriptive details for multiple morbidity in terms of principal and contributory diagnoses.

The standard form used in the national morbidity survey in England and Wales provides another example of diagnosis classification. The general definition of the principal diagnosis as applied in England and Wales is in its broad outlines similar to that given in the US Public Health Service Manual. Also the specific examples as to type of principal diagnosis supplied in the Manual under rules for selecting the principal diagnosis are in alignment with the specifications in the English classification system.

However there is one marked difference between these two systems in the application of the general definition in the case of a disease complex with an underlying and a secondary condition. In the USA a complication existing before admission may appear as the principal diagnosis for the particular hospitalization e.g. a brain absesser sresulting from bronchicetasis will be entered as the principal diagnosis bronchicetasis being entered as a contributory condition. In England and Wales the underlying condition always determines the principal diagnosis regardless of whether the complication super-need before admission to the hospital. Which of these two practices should be given preference. A complication especially if serious will determine the need for hospitalization more accurately than the underlying condition which in the absence of complications might not perhaps require hospitalization. On the other hand it can be argued that in complicated morbidity both conditions will require medical care and that the order of their registration is of little importance. Furthermore if it is the underlying cause which is used as the principal dagnosis in cases of receased admission.

indicate the persistence of the basic morbidity process and thus prove useful for certain types of study

An Expert Subcommittee on Hospital Statistics was set up by WHO to deal with these problems and others involved in hospital statistics. This subcommittee held its first session in Geneva from 11 to 14 April 1950* and submitted its report to the Expert Committee on Health Statistics, which approved it with the addition of a few comments

In its study of the procedures for recording principal and accessory diagnoses the subcommittee recognized that the choice between the American and the English practices should depend on which would be more profitable in the long run. It decided to recommend the method used at present in England and Wales with the addition that notation should be made as to whether a complication is present when the patient is admitted to the hospital Following acceptance of this proposal by the Third World Health Assembly States will be required to supply the following informa tion regarding diagnoses

- I Principal disease injury or other condition which led to admission to a hospital
- II Principal complication(s) of I (stating the most important one first and indicating whether present at admission),
- III Principal accessory acute condition (stating whether present at admis sion).
- IV Principal accessory chronic condition

The underlying cause should be entered in I if a complication in II was also present at admission even though the admission was due to that complication and in tabulation of statistics according to the principal cause of admission common combinations of an underlying cause with complication should be distinguished

The following were present at this meet ng

Members

Dr E. L. Crosby D rector Johns Horkins Hospital Balt more Md USA De Mare Lindhardt Head Stat stical Dection National Health Service of Denmark Copenhasch, Denmark (Chai man)

Denmark (Laut man)
Professor I Rauhin. Professor of Social Medicine University of Zagreb Yugoslavia
Dy P Stocka Chief Med cal Stati it ian General Register Office of England and Wales London United
Kingdom (Member of Will Civert Committee on Health Statisty).

Ob erver Dr M de Viado Social Security Section ILO

retarist
Dr M. Paccia. Deputy Director. Divis on of He lth Stat st.cs. WHO (Sec. 1...)
Dr Marie Caketo. a. I ternational N menclature of D seases and C uses of Death Section. WHO Dr P Foltz Med al Director Ospedale San Giovanni di To inn Turin Italy was unable to attend

The report of the subcommittee will be published in the 11 of the life Organistion Technis Report Se les

Other Problems

It was decided that the section of the hospital record relating to identifying data should be recorded by medical record or registration officers and should include as a minimum name type and location of the hospital the patient s name national identity number (if any) hospital registration number race sex date of birth date of admission and of discharge and referral service (physician other hospital etc)

The subcommuttee also emphasized that provision should be made in the compilation of hospital statistics for counting the number of patients admissions and discharges and principal diagnoses of various kinds It recognized the necessity for uniform definitions of the following terms hospital hospital bed inpatient outpatient admission discharge patient day duration of stay etc. but these definitions could not be thoroughly studied at the first session and will probably be placed on the agenda of a subsequent meeting.

Other questions of practical importance had to be postponed or entrusted to national health administrations or national committees on health statistics. For example the subcommittee thought it desirable to prepare statistics in certain hospitals for the mentally ill. Such studies entrusted to national committees on health statistics would give information con cerning the origin of disorders involving hospitalization according to the sex of patients their age civil statius occupation duration of the illness family history and other measurable etiological factors. It is also desirable to compile statistics concerning the immediate result of hospitalization as far as possible these should be supplemented by studies of sample groups of population in order to determine the prevalence of mental disorders.

The subcommittee unanimously acknowledged that in general the Manual of the International Statistical Classification of Disease Injuries and Causes of Death meets the requirements of hospitals better than any other classification it therefore recommended its general use for preparing statistics on hospitalized illness. In the opinion of the subcommittee it is not necessary that such statistics be prepared routinely in all countries for all hospitals: it would suffice to encourage their compilation in a few countries or in certain given regions in which the population exposed to risk of disease can be defined or wherever such definition is not possible in certain hospitals.

IMPROVEMENT OF STATISTICS ON FOETAL MORTALITY

Statistics for the city of New York show that, in 1948, 67% of the foetal deaths recorded occurred before the 20th week of gestation, 12% between the 20th and 28th weeks and 18% after the 28th week (the period of gestation was not recorded for 3% of the deaths). What is the international significance of these figures? Only after comparison with similar data from other cities and States can an answer be supplied to this question. Such comparison is rendered difficult if not impossible by the varying meanings attributed to the terms stillborn, and abortion. Thus, the New York statistician who considers as stillborn, a foctus whose death occurred after the 20th week of gestation finds that almost one thard of the total number of foetal deaths comes into this category, on the other hand for the statistician of some other American State who accepts the definition suggested by the League of Nations according to which only foetal deaths after the 28th week are considered 'stillborn, the category would include only 20% of the foetal deaths recorded

The US National Committee on Vital and Health Statistics which has recently been comparing stillbirth statistics for New York with those for other large towns in the USA was impressed by the magnitude of the foetal wastage problem as shown by the data for New York City, and that current data on stillbirths in the United States did not begin to indicate the true picture of such wastage. The committee stressed the gravily of this problem and in its report to WHO expressed the belief that even in New York City a very large number of foetal deaths was not registered

If the 1948 New York City foetal deaths was not registered If the 1948 New York City foetal death ratio corrected for under reporting were applied to the US live birth data there would be approximately 500 000 foetal deaths in the United States each year. The committee believes this is a public health problem of great significance the magnitude of which is not indicated by the current reporting of only 75 000 to 80 000 stillbirths in the United States.

At present, both the registration and the classification of this demo graphic data leave much to be desired. Valuable information is lost for want of some universally acceptable criteria which would allow research workers in various countries to use and interpret the statistics available.

Towards a New Terminology

The World Health Organization has set up a subcommittee for the definition of stillbirth and abortion reporting to the Expert Committee on Health Statistics to formulate a new demographic terminology which might be acceptable to all Member States. The problem which faced

this subcommittee when it met in Paris from 27 February to 3 March 1 was not a new one A similar committee had been set up by the Health Organization of the League of Nations to give an appropriate definition of stillbirth in the hope that all countries or at least a large number of them might adopt such a definition. In 1925 the following definition was proposed

A stillbirth is the birth of a (viable) foetus after at least 28 weeks of pregnancy in which pulmonary respiration does not occur such foetus may die either (a) before (b) during or (c) after birth but before it has breathed

This definition was not welcomed as had been hoped although adopted by some countries the majority rejected it Consequently little progress was made in this aspect of vital statistics, and there is considerable confusion with regard to terminology even now

In a recent number of the Epidemiological and Vital Statistics Report 2 Dr M Pascua Deputy Director WHO Division of Health Statistics surveyed the varying definitions of stillbirth accepted in various countries He also pointed out some of the statistical repercussions of this situation and proposed some practical methods for helping public health officers and other persons concerned with population trends to calculate more accurate demographic rates than can be obtained by the methods normally employed There can be no radical improvement in vital statistics however until certain uniform standards and definitions at present lacking are adonted

The failure of the attempt made by the Health Organization of the League of Nations to arrive at a universally acceptable definition of still birth shows the difficulties inherent in such an undertaking. It should not be forgotten that for the jurist as well as for the statistician there is an essential difference between a stillborn child " and the product of " abor The large number of provisions regarding the inhumation or the tion disposal of the dead foctus represents one of the factors which have induced the various countries not to require the registration of all foetal deaths including those occurring in the early months of gestation

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Dr M Pase a Dep ty D rector D 1810 of Health Statustics, WHO

The report of the beamm tire will be p bl hed i the World Health Organi tion Tech i al R port

IMPROVEMENT OF STATISTICS ON FOETAL MORTALITY

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The data should be classified in four groups as follows (duration of gestation being measured from the beginning of the last menstruation)

Group I - less than 20 complete weeks of gestation

Group II - 20 complete weeks of gestation but less than 28

Group III - 28 complete weeks of gestation or more

Group IV — gestation period not classifiable in groups I II and III
With requisite changes of detail the same classification should be used

with requisite enanges of detail the same classification should be used in the preparation of tables on foetal deaths Groups I II and III may be described respectively as early intermediate and fate foetal deaths. The terms abortion and stillbirth should be retained only if essential for use within a nation and stillbirth "only in so far as it corresponds to Group III (late foetal deaths). The subcommittee did not attempt to define abortion.

It is hoped that statistical tables covering all foetal deaths will be published in the near future. Countries unable to publish such tables immediately should at least register data and prepare tables covering all foetal deaths occurring after the 28th week of gestation.

Advantages of the New Definitions

These proposals open up new perspectives to all those concerned with vital statistics The new definitions which the subcommittee proposed depart considerably from that adopted by the Health Organization of the League of Nations The 1925 definition relied essentially on observing pulmonary respiration in the foetus A number of States found this unaccept able Clinicians declared that they felt neither morally nor ethically justified in considering the foetus dead if any sign of life had been observed such as movement of voluntary muscles beating of the heart or pulsation of the umbilical cord In adopting the new definitions the subcommittee interpreted the feeling of a majority which holds it essential that signs of life other than respiration be taken into account. Some physicians might perhaps be rather unwilling to draw up a birth and a death certificate in cases in which it is difficult to ascertain whether the foetus is born alive Experience shows that this happens quite frequently even today conse quently a large number of such cases are not registered. It is for this reason that the subcommittee was unanimous in stressing the importance of doing everything possible to secure the co operation of physicians and all other persons responsible for the registration of births. It further recommended that only a "foetal death certificate" and not both a birth and a death certificate be required for such cases. It is as yet too early to draw up a standard form for such a certificate even though uniformity is needed

Taking all these factors into consideration the subcommittee thought it preferable to formulate new definitions rather than to encourage accept ance of those attempted by the Health Organization of the League of Nations

New Definitions

First to be studied was the term—live birth', which is interpreted differently in different countries—Since the French language has no equivalent for the term—live birth—the subcommittee prepared a definition which could apply equally to—live birth—and—live born—

Live birth is the complete expulsion or extracting from its mother of a product of conception irrespective of the duration of pregnancy which after such separation breathes or shows any other evidence of life such as beating of the heart pulsation of the umbilical cord or definite movement of voluntary muscles whether or not the umbilical cord has been cut or the placenta is attached each product of such a birth is considered live born.

Foetal death was defined as follows

Foctal death is death prior to the complete expulsion or extraction from its mother of a product of conception irrespective of the duration of pregnancy the death is indicated by the fact that after such separation the foctus does not breathe or show any other evidence of life such as beating of the heart pulsation of the umbilical cord or definite movement of voluntry muscles

These definitions were adopted by the Expert Committee on Health Statutics which met in Geneva in April 1950 The Third World Health Assembly has now to approve them before WHO Member States actually adopt them

When the recommendations of the Subcommittee on the Definition of Stillbirth and Abortion have been universally accepted each country will in the future be called upon to prepare statistical tables of line births and foetal deaths for comparable periods of gestation. The subcommittee set these periods after studying the current data on foetal deaths and live births in various counties. It noted that very rarely are infants reported as being live born prior to the 20th week of gestation. On the other hand, there are recorded in England approximately three times as many live births as there are foetal deaths after the 28th week of gestation. It would therefore appear that a foetus begins to have a fair chance of sur vival at about this period. The subcommittee consequently decided that dividing lines at the 20th and 28th weeks could reasonably be used in the preparation of viral statistics since chinical conditions affecting live birth and foetal death change appreciably at about these times.

On recommendation of the subcommittee all countries are to submit tables of statistics covering all births whatever the duration of gestation

of being based on the assumption that the exact weight at birth will be known—information which cannot always be obtained. For this reason and for the promotion of international uniformity the expert group recommended the use by all countries of the definition which was adopted by the First World Health Assembly and which is set forth in the Manual of the International Statistical Classification of Diseases Injuries and Causes of Death. 2

For the purpose of this classification an immature infant is a liveborn infant with a birth weight of 5½ pounds (2.50 gramp) of less or specified as immature. In some countries however this enterion will not be applicable. If weight is not specified interborn infant with a period of gestation of less than 37 weeks or specified as "pre mature may be considered as the equivalent of an immature infant for purposes of this classification.

The problem of prematurity should be approached in two ways first by planning to reduce the incidence of premature birth and secondly by providing special care for premature infants. Preventive measures since they are a part of prenatal care may precede the development of special programmes for eare of the infant.

Preventive Programme

Certain conditions are prerequisites for the carrying out of a preventive programme. These conditions include a well organized public health service with a section actively concerned with maternal and child health definite indications that the infant mortality rate is declining and provision of facilities for hospitalization of pregnant women particularly those with complications. In many instances the cause of premature birth is not known and studies of this problem are indicated. There are certain factors that are known to affect the incidence of premature births for example early and continuous prenatal care maintenance during pregnancy of good physical and mental health services such as prenatal clinics providing medical nursing public health and social services hospitalization for women with complications well-organized obstetric services legislation for protection of mothers etc are preventive factors the importance of which should be stressed by an educational programme

Care of Premature Infants

In carrying out a programme of special care for premature infants there are also certain prerequisites. The entry on the birth criticate of the birth weight and the length of the gestation period (or at least one of these particulars) should be made compulsory. Exact statistics of foetal

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The new definitions made no radical change with regard to classification according to the period of gestation. The terms 'stillbirth and abor tion' will no longer be used in international tables but in practice, as has been seen, individual countries may still continue to use them in their national statistics The new terminology is undoubtedly more flexible and at the same time, better adapted to the requirements of the various countries It will enable States with highly organized services to draw up detailed tables, at the same time less advanced countries will at least be able to register and classify their basic data. The figures will be comparable and as a result, clinical and, more especially etiological knowledge will, in all probability, benefit considerably. It is hoped that in the light of this knowledge, it will be possible to take more effective public health measures to reduce the number of lives lost among premature infants 3

PROBLEM OF PREMATURE INFANTS

WHO has given particular attention to the problem of prematurity, an important cause of infant mortality. A group of experts which met in Geneva from 17 to 21 April 1950 emphasized the necessity for organizing and encouraging appropriate action with regard to prematurity and for collecting data on the various aspects of the problem i

Neonatal Mortality-Rate

The expert group stressed the importance of reducing the neonatal mortality rate by giving special care to all infants weighing 51/2 pounds (2.500 g) or less regardless of the length of the gestation period A defi nition established solely on birth weight however has the disadvantage

Another WHO expert group has recently studied the measures to be taken in this field (see below)

I The following were present at this meeting

Members ombers againsto Ch ef Maternal and Ch ld Heiths Centre habit e itealth Department Quito Ecuador Dr. V. Nac Chote Peed artican B mompham Reg onal Hop 10 18 Doard Birmingham United Aingdom Dr. V. Charles and Lelong Clin que de Paéricult re de la Faculte de 18 Doard Birmingham United Aingdom Dr. S. Z. Levine Professor of Paed arties and Feed articlas in Charles New York Clin entit de Para Face Center New York Cliv N Y USA (Calarman) Mational Health S rvi e of Denmark Copenhagert.

Denmark Professor of Paediatrics Uni ers ty of Helsinki Chief Children & Clinic Helsinki Finland (Co-Chai man)

Miss D Batt Matron Training Centre for Plunket Nurses Dunedin New Zeal nd Secretary

oreiari

Dr Ethel C Dunham Consultant Maternal and Child Health Section WHO

The report of the group will be published in the 16 o ld H alth O ga itali m Technical R og t Seelet

In some regions a programme of education of physicians nurses and midwives in the care of premature infants must be instituted while in others existing programmes may need to be expanded. Educational programmes should include particularly practical experience in a well equipped hospital. In addition there should be instruction in and demonstration of techniques of care and later refresher courses.

Research programmes suggested were studies to correlate the gestation period with birth weight and other criteria of prematurity nutrition of pregnant women and its relation to prematurity causes of premature birth and the relation of social and economic factors to the problem Governments could give valuable assistance by granting scholarships for such research as well as for a study of the highly specialized subject of prematurity and related topics

FIRST RESULTS OF MASS VACCINATION WITH BCG

The object of the campaign for mass vaccination with BCG begun in 1948 by the Danish Red Cross the Swedish Red Cross and the Norwegian Relief for Europe with material and from the United Nations International Children's Emergency Fund (UNICEF) and technical help from WHO—known as the Joint Enterprise—is to test over 30 000 000 children and young adults with tuberculuin and to vaccinate with BCG all non reactors ¹

This vast operation is at present being carried out in 17 countries It provides a unique opportunity for beginning the study of several problems relating to tuberculosis on the basis of a sufficiently large number of observations to enable the results to be analysed statistically. Various questions relating to the epidemiology of tuberculosis—for example variation in tuberculin sensitivity according to distincts climate race age and sex—vacination and its effects and the efficacy of tuberculin tests may now be investigated practically with the aid of data obtained in widely different parts of the world. To examine and analyse this important collection of data a Tuberculious Research Office was set up by WHO in Copenhagen. The individual cards of tested and vaccinated individuals are sent to this office after being subjected to a preliminary analysis locally in certain cases. Since the beginning of the campaign information has been received from various countries particularly from European countries. This abundant information has provided Dr H J Ustvedt Deputy Director of the

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and neonatal mortality must be available. It is essential that qualified medical and nursing services should be provided as well as hospital services and facilities suitable for the care of premature infants.

The carrying out of a programme of care of premature infants will differ according to whether confinements in a given region are in hospital or at home. The group suggested that either one or both of these programmes might be instituted as a demonstration, including the integration of all existing resources of the community into the programme. If a hospital centre for the care of premature infants is established at least one paedia trician and nurse specially trained in the care necessary for such infants must

FIG 2 EXPERT GROUP ON PREMATURITY



Lett to right (seated round table) Dr.L. Verhoestraate (WHO) Miss E. Magnussen Dr.V. May Crosse Miss D. Batt Dr. Ellierr Downs (WHO) Dr.A. Yupo (Go Chairman) Dr.S. Z. Levine (Chairman) Dr. Ethel Dunham (WHO) Miss H. Martikalnen (WHO) Dr.L. Camacho Professeur M. Lelong

be in attendance The instruction of the mother in premature infant care should be started while she is in the hospital and continued in the home. Where nursing care is given to the infant at home provision must be

made for hospitalization in case the infant's condition calls for special care
Provision should be made for transportation of the infant and for follow
up medical care

Development of Programmes Education Research

Whether care be given in the home or in hospital these initial programmes will be progressively extended to increasingly larger areas wherever possible. To achieve this an administrative organization will be required to delegate and carry out the programme.

define in particular the criteria for a positive reaction which are recognized by the Joint Enterprise. Moderately sensitive test methods which exclude tuberculous persons from vaccination and as far as possible satisfy the two conditions mentioned above are to be used.

The tuberculin test may be carried out in various ways the principal methods being

- (a) application of tuberculin ointment under plaster (Moro patch test)
- (b) intracutaneous tuberculin injection (Mantoux test) with doses varying from 1 TU to 100 TU (1 TU \approx 0.01 mg)
- (c) Prequet cutaneous test with addition of adrenalin to the tuberculin (AP test)

Instructions given by the Joint Enterprise to doctors and nursing staff provide for the application of the Moro patch test to children up to 12 years of age. The comparison of this test with the Mantoux test with 1 TU or 10 TU was carried out on more than 24 000 individuals mainly in Poland examined by the Joint Enterprise and the results showed that the sensitivity of the patch test seems to correspond fairly closely to that of Mantoux 1 TU 95 / of the individuals reacted to both tests. On the other hand the patch test is sometimes less sensitive than Mantoux 10 TU in the same age group. It becomes liss effective than Mantoux 1 TU or 10 TU as the age of the children increases particularly after the age of 12 (see fig. 3). The possibility of non specific reactions being elicited by the Mantoux test must be considered in the case of the children in question however such reactions are of no great importance.

The application of the Mantoux test to children over 12 years raises subsidiary questions. What does of tuberculin should be employed—1TU 3TU 5TU 10TU or 100 TU? This is a complex question because as has been pointed out tuberculin sensitivity varies in different districts and all the factors affecting the reaction cannot be taken into account.

It was decided that in the Joint Enterprise campaign two successive tests should be made a dose of 1 TU was used for the first test and if this was negative a dose of 10 TU was used for the second Other combinations such as 3 TU and 33 TU 5 TU and 50 TU are still being investigated.

What are the criteria for a positive reaction? Here again opinions differ 3 certain time interval of the induration caused by the injection has been selected as a criterion and a reaction which after 72 hours shows an induration of 3 mm to 4 mm or more is said to be positive

The AP test has not yet been generally used in the Joint Enterprise campaigns but elsewhere the results of tests on 23 000 children have shown

Joint Enterprise, with material for three important articles which appeared recently in the Bulletin of the World Health Organization. These articles constitute the first contribution of the Joint Enterprise to the study of three problems (a) technique of tuberculin testing, (b) local reaction in BCG vaccination, and (c) tuberculous disease in BCG vaccinated individuals

As Dr Ustvedt points out mass viccination campaigns hardly led themselves to strict scientific investigation. The time available is short, the training of the medical and nursing staff responsible for carrying out the tests and reading the reactions varies the material inoculated is not always homogeneous children often fail to appear for re examination, and information concerning the previous morbidity records of the children is difficult to ascertain. In addition to these difficulties, there are biological factors, such as the different tuberculin sensitivity in different areas to consider, apart from individual variations which cannot always be taken into account. In view of these two groups of variable factors it is difficult to regard the present results as absolute However, it is now possible to lay down various valuable practical rules to define a number of problems requiring more thorough experimental investigation, to refute some of the arguments, scientific or sentimental and perhaps to overcome certain prejudices

Tuberculin Testing

Pre vaccination test

The pre vaccinition test with tuberculin is intended to select for vaccination individuals who are not yet infected with tubercle bacilli and to exclude from vaccination allergic individuals in whom reinfection might have unpleasant consequences There is at present however, no method by which the infected can be distinguished with certainty from the non infected With each method it is possible that positive reactions will occur in non infected individuals (non specific reactions) or on the other hand that negative reactions will be observed in individuals who, in point of fact, are infected. It is necessary therefore to study various methods of tuberculin testing and to choose that method which will disclose the highest thorrouni testing and to the state of the st requirement and it can be readily understood that these criteria have been discussed at great length

Instructions have been drawn up by the Joint Enterprise for the guidance of the personnel responsible for the various operations These instructions

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These articles together with a study on BCG culture (ee page 187 of this number of the Chroni ie) form a complete issue of the Bulletin

merely one of the aspects of allergy it may decline or disappear while the allergy of other organs still remains

A specific tuberculin reaction appearing after BCG vaccination in a non reactor to the same test shortly before vaccination shows that the latter has taken. The connexion between this fact and the increased resistance of the individual is however not known. The results of about 30 000 post vaccination reactions examined by the Joint Enterprise have been obtained from Czechoslovakia Greece Poland and Yugoslavia Most of the studies showed a very high proportion of positive reactionsin most cases the percentage exceeded 90/ and in some cases 99% 100% reactors were disclosed. These results are therefore entirely satisfactory from the practical point of view although lower figures (70%) have been recorded in certain groups. It should be noted that post vaccination tests should be carried out by the same methods as the pre vaccination tests.

Local Reaction in BCG Vaccination

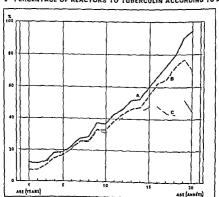
In healthy individuals vaccination with BCG produces a local reaction at the site of inoculation which appears after a period of three to four weeks or longer 1e at about the same time as the first signs of allergy individual Nevertheless the reaction to vaccination has not always this benign character Strong local reactions may occur These appear in the form of an induration of 10 mm or more accompanied in certain cases by ulceration pustules and glandular complications. The intensity of the reaction depends among other things on the number of bacilli (killed or living) which have been injected on the vaccination technique and on individual factors. Observations made by the Joint Enterprise revealed among 14 000 persons examined 6 to 10 weeks after vaccination 3 / reac tions measuring 10 mm or more. Ulcers appear relatively earlier 1e between the 4th and 8th weeks in some groups ulcers were observed in 023% of the individuals Local abscesses are mentioned in some studies Cases of glandular complications with suppuration are of the greatest practical importance. As many as 196 cases out of 62 200 individuals (0.03 &) have been observed in certain countries the left axilla was affected in most of the cases

If suppurating lymphadenitis abscess formation at the site of vacci It suppurating lymphadenitis abscess formation at the site of sacer nation and local ulcers with diameters of 10 mm or more are regarded as complications the proportion of these phenomena observed in the Joint Enterprise campaigns is between 0 1 / and 0 5%. A special case of strong reaction is the "koch phenomenon" or accelerated formation of the tuberculous nodule (see fig. 4). It occurs much

that it is as effective as Mantoux 10 TU and seems to produce few r non specific reactions. Mass vaccination on the basis of a single negative AP test would appear to be justified, and its general employment should be considered.

The use of diluted BCG vaccine instead of tubercular for the pre vaccination test had been advocated in order to simplify the technial procedure by working with one test and one reagent. In this connexion however further studies are required.

FIG 3 PERCENTAGE OF REACTORS TO TUBERCULIN ACCORDING TO AGE



Studies carried out on 12443 males in Mysienice and Wadowice powlate Poland from May
fo June 1948
Manious 1 TU and 10 TU
More patch lest

Post vaccination test (control of vaccinated individuals)

The object of the post vaccination test is to furnish information regarding the degree of tuberculin sensitivity conferred by vaccination such sensitivity being regarded as an index of immunity absolute but cutaneous hypersensitivity to criterion for the assessment of allergy which is itself the only index of immunity obtainable for human beings.

Owing to the imperfections of tuberculin tests and despite all the precautions adopted it is impossible during vaccination campaigns in volving millions of individuals entirely to avoid vaccinating persons infected with tubercle bacilli. The lowered tuberculin sensitivity of in dividuals suffering from various other diseases may result in individuals who are really infected being recorded as non infected. For this reason and also owing to certain individual sensitivity factors. Koch phenomena are liable to occur during mass vaccinations. The difficulty of defining the Koch phenomena exactly is one of the reasons why the statistical results on this subject are not very accurate. Nevertheless, it would appear from the various investigations that strongly marked Loch phenomena likely to prove disagreeable for vaccinated individuals are of extremely rare occurrence Only 7 cases of ulceration were noted in a district where the percentage of tuberculin reactors is very low. The studies carried out show that strong local reactions during the first week after vaccination seem to have occurred only very rarely in individuals who were vaccinated after giving a negative reaction to a patch test. Mantoux 10 TU and 50 TU and an AP test This may be taken as an indirect proof of the fact that the technique adopted for the tuberculin testing was fairly satisfactory as far as selection of individuals for vaccination was concerned

Tuberculous Disease in BCG-Vaccinated Individuals

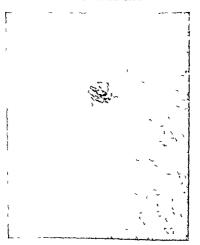
Can BCG produce activate or aggravate a tuberculous infection? The question has not been definitely settled The problem has too often been approached on non scientific lines and should be re investigated with complete impartiality

BCG has often been accused of causing tuberculous infection reviving latent infection or accelerating the criss in active tuberculosis. Before discussing the question itself D Ustwedt points out some of the misconceptions on the part of the public and the misconderstandings which are liable to occur during mass vaccination campaigns for example a tuberculin test may be mistaken for a BCG vaccination vaccination against smallpox or diphtheria may be confused with BCG vaccination a non tuberculous disease or normal BCG its may be diagnosed as tuberculous etc. It is certainly easy to rectify statements resulting from such mistakes and to dispose of fundounded judgments. That being done some cases in which BCG might have played a part in the development of a tuberculous infection should be objectively examined.

Cases of tuberculosis have occurred in individuals vaccinated with BCG. The immunity conferred by the vaccine is admittedly not absolute. Can BCG however be held responsible for the infection? Thorough investigation has shown that since 1930 BCG has not caused progressive.

earlier than a normal reaction and appears in the form of crythema pustul and, sometimes ulcers or necroses, and may be complicated by glandula reactions. It is the result of a reinfection and appears in individuals who before vaccination, were already infected with tubercle bacilli. This phenomenon which was described by Koch in his experiments on animals,





Photograph submitted by Dr E Graubner Pilsen Czechoslovakia

has been observed particularly during experiments on the treatment of tuberculosis with BCG and in isolated cases after BCG vaccination

A curious case appears in the literature on the subject

A girl was vaccinated with BCG on a negative Mantoux 100 TU. The post vaccination test carried out three months later was positive. Three months after this last test she fell and injured the reliow, the lesson was accidentally contaminated by sputium containing tubercle bacilli of the human type. The girl soon showed a tuberculous ulvrand caseous lymphadentits became apparent in the regional glands on the 27th day after inoculation.

In the last part of this article Dr Ustvedt reviews the various forms of tuberculosis observed in individuals vaccinated with BCG. Tuberculous meningitis and miliary tuberculosis have been observed in 21 children during the campaigns in various countries. In most cases the date of appearance of the symptoms makes it likely that the vaccination was carried out during the pre allergic phase. There is no evidence to show that BCG vaccination contributed to the development of the disease.

In his paper the author points out that the isolation of human type bacilli from a tuberculous individual is not in itself sufficient proof that BCG was not responsible for the disease. If BCG were to become virulent it might possibly present some of the characteristics of human type bacilli superculous with regard to its pathogenicity for certain experimental animals Cases of erythema nodosum are very controversial since they can be of non tuberculous origin. Cases of primary tuberculosis have been observed in persons infected with virulent bacilli shortly before or after BCG vaccina tion. However when the first 6 to 8 weeks after vaccination have elapsed without any superinfection and when post vaccination allergy has been obtained the manifestations of primary tuberculosis disappear in a striking manner. This last phenomenon is characteristic and has been observed in most of the groups vaccinated with BCG.

BCG ON SAUTON'S MEDIUM

BCG is maintained at the Institut Pasteur in Paris by subculture of the strain every 15 days on Sauton potato. For the preparation of the vaccine itself it is necessary to obtain a culture which gives a thick film. For this purpose therefore BCG is grown on Sauton's liquid medium on which two passages only are carried out.

Earlier observations by Danish workers showed that the vitality of BCG was diminished when subcultured serially on Sauton's liquid medium the cultures were less livrurant than on potato and the altergizing power of the strain was reduced but a passage from time to time on bile potato was enough to restore the original properties of the strain Van Denise and Senechal have reconsidered this question in detail

Van Deinse and Sénechal have reconsidered this question in detail and have given their results in an article appearing in the latest number of the Bulletin of the World Health Organi atton. These authors studied the behaviour of BCG in a long series of subcultures on Sauton's liquid medium alone. They noticed that at the fourth passage the growth of the culture began to slow down. Instead of a film covering the surface of the medium

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tuberculosis in laboratory animals, that it has not been virulent in human beings, and that no fact has come to light which has caused the innocuousness of this vaccine to be questioned

Individuals who are already infected with virulent bacilli but who did not react to the tuberculin test may be vaccinated. It was stated early that these tests do not reveal all the infected persons Cutaneous sensitivity may be greatly reduced in individuals who have previously suffered from tuberculosis and may decline or disappear during infectious diseases such as pertussis or measles Moreover the person may, at the time of vaccina tion be in the pre allergic phase of an infection caused by virulent tubercle bacilli and may not react to the tuberculin. The vaccination of such indim duals-infected but non reactors-may cause accidents and Koch phenomena which if violent are likely to influence the course of the infection

In the Joint Enterprise campaigns various individuals have been observed in whom the following symptoms appeared 10 to 12 weeks after vaccination erythema nodosum, hilar adenitis, primary complex, and pleurisy It is known that erythema nodosum may be provoked by various agents (for example drugs and vaccines) and BCG may possibly have a similar effect. In a few cases of primary tuberculosis which occurred soon after vaccination, no causal relation could be established between the vaccination and the disease To avoid controversy, however, persons who have suffered from tuberculosis should not be vaccinated, even if they have become negative to tuberculin The same precaution should be taken when an epidemic of a childish complaint which weakens the sensi tivity to tuberculin, has broken out in an area

The influence of BCG on active tuberculosis has already been the subject of much investigation. While some doctors felt that it had a certain beneficial effect others considered that it might not always be harmless for patients suffering from active tuberculosis. When large doses of BCG are used it must obviously be expected that such persons will show a reaction similar to that produced by tuberculin After inoculation with strong doses of BCG a focal reaction, a rise in temperature the transient aggravation of pleurisy and articular phenomena have been observed While it cannot be said with certainty that these manifestations are a consequence of vaccination the possibility cannot be denied absolutely Some doubtful cases in which it is not possible to determine precisely what part was played by BCG in the development of a non apparent disease which sometimes proved fatal are discussed in detail in the article by Dr Ustvedt This author concludes by emphasizing that in spite of the abundant documentary evidence asserting the harmlessness of BCG vaccination of persons suffering from active tuberculosis should as far vaccination of persons seems from a curve trucerculosis should as in a possible be avoided. Improving the tuberculin tests thus making it possible to discriminate with increasing precision between inficited and non infected individuals will be the surest means of attaining this end

In the last part of this article Dr Ustvedt reviews the various forms of tuberculosis observed in individuals vaccinated with BCG Tuberculosis meningitis and miliary tuberculosis have been observed in 21 children during the campaigns in various countries in most cases the date of appearance of the symptoms makes it likely that the vaccination was carried out during the pre allergic phase. There is no evidence to show that BCG vaccination contributed to the development of the disease

In his paper the author points out that the isolation of human type bacilli from a tuberculous individual is not in itself sufficient proof that BCG was not responsible for the disease. If BCG were to become virulent it might possibly present some of the characteristics of human type bacilli the specially with regard to its pathogenicity for certain experimental animals. Cases of crythema nodosum are very controversial since they can be of non tuberculous origin. Cases of primary tuberculous have been observed in persons infected with virulent bacilli shortly before or after BCG vaccina tion. However, when the first 6 to 8 weeks after vaccination have clapsed without any superinfection and when post vaccination allergy has been obtained, the manifestations of primary tuberculosis disappear in a striking manner. This last phenomenon is characteristic and has been observed in most of the groups vaccinated with BCG.

BCG ON SAUTON'S MEDIUM

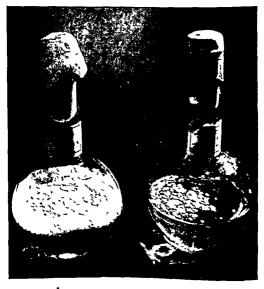
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dry granules were formed (see fig. 5). The size of the bacilli was also smaller by a quarter or a fifth than that of bacilli maintained on potato. This fact may be of considerable importance in the standardization of BCG vaccine as the same weight of culture may contain a different number of

FIG 5 EFFECT OF SAUTON S MEDIUM ON THE BIOLOGICAL PROPERTIES
OF BCG CULTURES



A = normal culture B = culture after 37th passage on Sauton's medium

bacilli according to the medium used. After about 20 passages on Sauton 8 medium the ability of the strain to produce a local reaction in the guinea pig is also reduced.

The Danish authors observed that a few passages on bile potato restored the vitality of the culture Van Deinse and Senechal showed that the pre sence of bile was not essential and that a single passage on potato was enough to restore the normal development of the strain. They concluded—thus confirming the observations made by Guerin 25 years ago—that Sauton's liquid medium is unsuitable for the maintenance of BCG and that its use is to be discouraged.

WORLD DISTRIBUTION OF TRACHOMA

Before any action against trachoma can be undertaken it is important to study its present distribution throughout the world Spread over almost all continents this disease is the cause of enormous economic losses It afflicts a great number of people from childhood and is to a considerable extent chronic in nature. Its most serious consequence is blindness.

The Health Organization of the League of Nations was aware of the senousness of the problem presented by trachoma and between 1925 and 1935 made a number of studies of the geographical distribution of the disease. Since fourteen years had elapsed since the last of these studies was carried out a joint OHHP/WHO study group which met in Paris in Cotober 1948 ¹ recommended that WHO obtain from governments up-to date information on the prevalence of trachoma throughout the world based on returns established after examination of schoolchildren army recruits and samples of population and on the percentage of trachoma cases to the total number of eye patients treated in ophthalmic hospitals and clinics.

An article— World distribution and prevalence of trachoma in recent years — by Dr M M Sidky formerly member of the WHO Epidemio logical Studies Section and Dr M J Freyche Chief WHO Epidemio logical Information Section was published in the November December 1949 number of the Epidemiological and Vital Statistics Report 3 This work is based on information which WHO has received from governments. As pointed out by the authors the results of the survey are not yet complete since there are large areas from which no documentation has been sent to WHO and since statistics with regard to chronic diseases must always be treated with caution. In spite of these imperfections however the conclusions reached by the authors provide some very useful data and may be used as a basis for further and more thorough research.

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FIG 6 APPROXIMATE GEOGRAPHICAL DISTRIBUTION OF TRACHOMA

rare but present in a few foci absent no recent information 00~

not very common or common in local sreas

evidence of present and past infection in majority of Inhabitants

The following points in particular should be noted

- (1) The trachoma index for schoolchildren is lower than for the population as a whole. This observation is based on information furmished by several countries. In Albaina for instance according to an inquiry made in 1944, the trachoma index for schoolchildren was 14/whereas the total trachoma index was 27%.
- (2) In countries where the disease is highly endemic there may be zones which are relatively free from infection. In Iran for example the trachoma indices in certain endemic areas may be from 80% to 90% while in other areas of the same country they may be from 2% to 10%.
- (3) An important fact which merits particular attention is that regions which were until the last few years considered to be practically free from trachoma appear from recent surveys to be highly infected by the disease. In Tanganyika for example of a group of 4 000 recruits who were examined 23% were found to be infected with trachoma and in the higher regions in the south west of the country of 3 177 adults and children examined 54% were suffering from the disease.
- (4) On the other hand in countries where trachoma previously existed sanitary measures and the raising of the standard of hygiene among the people have led to the gradual disappearance of the disease. For example only a few sporadic cases are found in Belgium Denmark Luxemburg the Netherlands Switzerland and the United Kingdom An analogous situation is noticed in other countries in spite of chance outbreaks caused by the bringing in of infectious elements from the outside. This is the case in Austria France and the US Zone of occupied Germany. Recent statistics show however that the gradual decrease in trachoma is continuing and the results obtained from measures systematically applied in countries still affected such as Ireland and the USA indicate that trachoma will gradually disappear.

Notes and News

Anaesthesiology Training Centre Established by WHO

Graduate physicians will take a one year course

The training centre will benefit from the experience of two eminent specialists Dr S G Cullen of the University of

Iowa and Dr Ralph Waters former Professor of Surgery and Anaesthesiolog of the University of Wicconsin A British specialist Dr Phyllis Edwards and several Di 2th physicians will assist in the teaching

Serodiagnosis of kala azar

A simple method for the serodiacnosis of Iala-szar has recently been tested by Wild specialists. The antimalaria demonstration team in East Pakistan has undertaker a campaign against kala azar in addition to its regular activities. It has been noted duri, the operations that evological reactions to formalin and to antimony give entirely sufficiently results when they are performed by means of capillary tubes. The pravial advantage of this method is obvious the taking of the blood samples is infinitely caser than by veripuncture.

Filariasis in Cevlon

At the beginning of March Dr M O P I Ivenear conducted a filanasis-control pregramme in the Galle Municipality Ceylon. A previous survey of this region had reveiled a high endemicity rate of filanasis due to Winherent hanteofti transmited by Chir Jangans. The programme included treatment of breeding places with larisades and training, of personnel in control measures. It was decided to treat the breeding places weekly to examine them two days after treatment, and if necessary to repost the treat ment. Attention was also given to the cradication of other sources of pullulation such as certain plants, defects in septic tanks, and final quarte drainings sixt ms.

BCG in Egypt

Dr D R Thomson Regional Adviser for Tuberculosis WHO Regional Offic for the Eastern Mediterranean has had several discussions with officials of the Ministro of Public Health of Egypt with a view to exabilishing an antitub-realisis centric in this country. He has also conferred with Dr J. H. Holm Director. Tuberculosis Division, Statens Seruminstitut, Copenhacen and with the Egyptian authorities concerning EGG vaccination in Egypt. It has been decided to vaccinate the total population of certain provinces concentrating all the available teams there. A BCG production centre will be set up at the Found Serum Institute at Agoust.

Malaria

India

Investigation on the incidence of malaria has been proceeding in the Terai rector in India 2 of 17% children examined in 28 villages. 548 were found with enlarged spleen of 187 blood smears examined from children under two years of ace. 49 were positive for malarial parasites.

High incidence of malaria was also observed in similar studies in the Jeypore Hills area. It was noted that there is a general tendency for the parasite index in the villages strayed with insectuade to be lower than that in the unsprayed villages.

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Pakistan

Following distinsection campaigns in Iswargan Thana? Pakistan the malaria control demonstration team ³ was able to compute in February 1950 that the parastie index among children under ten years of age was 62 / in the sprayed area whereas in the untreated comparison area it was 163 / The difference was especially marked in the age group under two years in which the parasite index was 71 / in the sprayed zone and 375 / in the unsprayed area

Public Health in Lebanon

Dr J M Vine adviser in public health administration visited Lebanon at the request of the Minister of Health of that country With Dr F W Clements Chief WHO Nutri non Section he had an opportunity to examine about one thousand children in the Palestine Arab refusee camps

The possibilities of establishing a school of hygiene in Lebanon were considered. This school would train public health officers sanitary inspectors and visiting nurses

Yaws Control in Indonesia

Dr K R Hill Professor of Pathology at the University College of the West Indies Jamaica has left Geneva for the Republic of Indonesia where he will direct a yaws control camoain which is being undertaken jointly by UNICEP and WHO

From 1943 to 1945 Dr Hill took part in a campaign in West Africa for the control of yaws by the use of pencillin. He directed a team carrying out medical research on the Gold Coast on trongal diseases, including yaws and synthing.

In Indonesta Dt Hill will act as adviser on modern methods of yaws control as the method officer in charge of a team which also includes a senior bacteriologist and a public belith nurse. Dr T B Turner of the Research Laboratory Johns Hopkins University Baltimore Md — which is a WHO reference laboratory — will assist in the campaign from the USA. Strains from yaws and syphilis infections will be sent to him from Indonesia from comparative investigations of treponema strains from various parts of the world.

Czechoslovakia Decides to Withdraw from WHO

Mr V brokf Vec President of the Council of Ministers and Minister for Foreign Affairs of Coccelholivaka has given notice of the decision of his government to with draw from WHO. His letter addressed to the Director-General and dated 14 April 1930 states. "In the opinion of the Government of Crochoslovaka the World Health Organization does not fulfil the aims and principles of its Constitution." The fundamental Provisions of the Constitution of the World Health Organization have remained nothing but abstract watchwords: Moreover the Organization is subject to political influences leading even to discrimination against certain States Members including Cecholos-value Developments within the World Health Organization are thus in contriducion which were purposed to condition for Cecholos-value Developments of the Constitution which were purposed or condition for Cecholos-value."

Czechoslovakia since 1947 received assistance which included WHO participation in various national campaigns against tuberculosis and venereal diseases. A penucillin plant donated by UNRRA is now functioning satisfactorily due in part to technical assistance given by WHO. Sixty two fellowships have been granted to physicians from

the Czechoslovak health administration to enable them to study in other countries including the USSR in 1950 \$37,000 were allotted for the same purpose

WHO assistance has also taken other forms among which may be mentioned in present total relationship to a State medical library and documentation centre is Prague. WHO has already equipped a laboratory for microphotography and has presented a considerable number of medical textbooks and monographs and subscription to 161 medical journals. In addition an anaesthesiology training-centre was being organized at Prague with WHO aid international courses in modern techniques of anaesthesiology were to be given there. Firnilly WHO planned to furnish all the medical and surgical equipment for a teaching centre devoted to congenital heart diseases Arrary ments had already been made for a group of Swedish specialists to go to Creeholovakia in June to demonstrate new operative methods.

Government of Republic of China in Formosa Withdraws from WHO

A cable dated 5 May 1950 informed Dr Brock Chisholm WHO Director General that China was withdrawing from the Organization as of 7 May and would not be represented in any organs of WHO including the Third Health Assembly The Chines Government wished it to be known however that it would continue to adhere to the purposes and principles of WHO and to co operate to the fullest possible extent in health matters with the Organization as a whole and with its Member States.

The communication came from Taipeh Formosa and was signed by George k C Yeh Minister of Foreign Affairs Republic of China

Cambodia and Laos Request Membership

Cambodia and Laos have on the 3 and 7 April respectively submitted applications for membership to the World Health Organization. These applications were examined by the Third Health Assembly which admitted these States to membership.

Seventy Member States of WIIO

Nicaragua and Cuba have recently ratified the Constitution of WHO thus bringing the total number of Member States of the Organization to 70. Names of countries which are now members of WHO may be found in Chron. World Hith Org. 1949. 3. 298 and 1950. 4. 37.

CORRIGENDUM

1950 Vol 4 No 3 page 83

In the article entitled Prevalence of plague in recent years the Azores were listed among the areas in Africa in which plague is prevalent

The Department of Health Ministry of the Interior Lisbon Portugal has asked us to publish a corrigendum explaining that the Azores archipelago constitutes a part of continental Portuguese territory in Europe

VOI. 4 No. 78



AUGUST 1950

CHRONICLE OF THE WORLD HEALTH ORGANIZATION

CONTENTS

This double number of the Chronicle is devoted to an account of the Threat World Health Assembly which was held in Genesa from 8 to 27 May, 1950. The official proceedings of the Third Health Assembly comprising decisions and resolutions verboil mirrorcords of the plenary meetings and minutes and reports of the main committees will be published thority as Official Records of the World Health Organization No. 28

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THIRD WORLD HEALTH ASSEMBLY

GENERAL ACCOUNT

The Third World Health Assembly, in a three week session, approved a programme for WHO which will give new emphasis to certain communicable diseases such as plague cholera and influenza while continuing to assign high priority to malaria tuberculosis and venereal influence important decisions on organizational problems were also reached by this Assembly which was in session from \$10.27 May 1950 and was attended by delegates and observers from \$61 countries and territories.

Rajkumari Amrit Kaur Minister of Health of India who represented het country at the First ind Second Assembles was unanimously elected President of the Third Health Assembly Dr H P Froes (Brazil) Professor G A Canaperia (Italy) and Lt Col M Jafar (Pakistan) were elected vice presidents

The working machinery of the Assembly consisted of two committees the Committee on Programme which had Dr J A Hoper (Sweden) as its charman and Dr J Allwood Paredes (El Salvidor) and Dr S Daengwang, (Thailand) as vice chairmen and the Committee on Administration Finance and Legal Matters for which Dr J H Holm (Denmark) served as chairman and Dr J N Togba (Liberan) as vice chairmen Preliminary discussions were carried on in meetings of these committees and the decisions reached were subsequently submitted to the Assembly in plenary session for approval

Mr Trygve Lie Secretary General of the United Nations stopped in Geneva en route from Paris to Moscow so that he might address the opining session of the Assembly and lay the cornerstone of the new wing of the Palais des Nations which will house permanent WHO Headquarters. The keynote of Mr Lie is speech at the Assembly was the need for increased effort to improve the living conditions of the more than sixteen hundred milition people—living for the most part in the so-alled underdeveloped areas of the world—who suffer from poverty hunger and insecurity. He gave hope to the Assembly that the Evpanded Programme of Technical Assistance for Economic Development of Underdeveloped Countries might soon materialize and would make available funds for activities in which WHO might play a major role. Mr Lie praised the record of accomplishment of WHO but warned that this is the year of decision for the United Nations and its socialized accomplishment of Orthe United Nations and its socialized accomplishment of who but warned that this is the

Dr K Evang outgoing President of the Assembly repeated the concern he expressed at the Second Assembly about the madequacy of the budget of WHO which he said "threatened to reduce WHO to an administrative

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planning, and collecting organization only ' He emphasized that the problem of today is not first and foremost lack of knowledge but lack of practical application of this knowledge in the field of health. If half or one third, or even one tenth of the present scientific knowledge of medicine had been spelt out in terms of public health administrations hospitals, sick insurance schemes, doctors, nurses, and auxiliary personnel in a proper production and distribution of drugs and insecticides, medical literature and equipment, the picture of the whole world would have been very different indeed from that which meets the eye today.' The dilemma facing WHO is that of securing sufficient funds to help governments to apply modern medical knowledge where it is needed

BUDGET AND PROGRAMME FOR 1951

Throughout the session of the Assembly there was an awareness of the difficulties of trying to economize as much as possible without sacrificing the purposes for which the Organization was created. In her concluding address the President too stressed this problem, stating. We who are assembled here know quite well how to contend against disease and ill health but the tragedy for us is that we have not, in adequate measure the sinews of war wherewith to battle against the enimes of humanity. She expressed confidence that the Executive Board, whose responsibility it is to adjust the expenditures of the Organization to its 'meagre assets', would do so in such a way that the programme activities would suffer as little as possible.

The budget voted by the Health Assembly for 1951 amounts to 57 300 000 Member States will be assessed in an amount of \$7,089 025 according to a scale similar to that adopted by the United Nations Several States have recently joined WHO thus adding to the financial resources of the Organization on the other hand the States which no longer consider themselves Members of the Organization 2 have created a new problem in that although they continue to be assessed and serviced the Organization cannot count on their contributions This anomalous position has resulted from the fact that since there is no provision in the Constitution of WHO for withdrawal of Member States the Assembly was not in a position to draw up a budget based solely on contributions from other Members without thereby giving legal sanction to the withdrawals Such sanction was considered inadvisable because the prevailing feeling was that nothing should be done which might contribute to depriving these States of the benefits of full participation in WHO or the Organization of their support The Third Health Assembly passed a resolution declaring that WHO will always welcome resumption by these States of full co operation in the Organization

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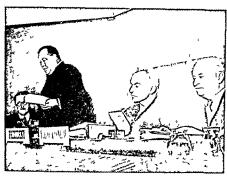


FIG. 1. M Trygve Lie. Secretary General of the United Nations addressing the opening meeting of the Th. d. Health Assembly. Centre. Dr.K. Evang. Periodent of the Second Health Assembly. 1911. D. Bock Ch. shofm. Dr.e. o. General of WHO.

The budgetary implication of this decision is that the expenditure level of the Organization will have to be readjusted so as not to exceed the actual funds available. This responsibility was entrusted to the Executive Board which met shortly after the Assembly session to re discuss the whole programme for 1911. The programme as adopted by the Assembly and briefly outlined in the following pages represents therefore only an attempt to draw up a general framework of activities and to guide the Executive Board in its decisions concerning the concrete programme for 1951.

The programme and budget as approved by the Assembly and amended by the Evecutive Board will represent the minimum activities which the Organization can expect to carry out during 1951. This does not mean however that entirely new projects may not be added or the present programme considerably explicitly anded. If the Expanded Proeramme of Technical Assistance for Economic Development of Underdeveloped Countries commonly known as the Technical Assistance Programme materializes during the coming year new funds will become available and the Organiza

on will be expected to play an outstanding role in concerted activities such aim at the economic development of various countries

TECHNICAL ASSISTANCE PROGRAMME

The Assembly heard a statement on the latest developments with regard to the Technical Assistance Programme a subject which the chairman of the Committee on Programme qualified as perhaps the most important on the igenda In June 1949 the Second Health Assembly approved a programme of expanded technical assistance to governments which was merely an enlargement of the regular programme of the Organization and considered an adequate means of encouraging economic development through the improvement of health conditions. It was not possible at that time to establish a budgetary procedure for the implementation of the programme, and this question was referred to the Executive Board which authorized the Director General to undertake appropriate negotiations concerning the provision and administration of funds comprehensive plan was elaborated by the United Nations and its specialized agencies WHO playing an active part in its formulation. The section of this plan dealing with health consisted in the main of an amended version of the expanded programme of technical assistance approved by the Second Health Assembly

The plan was submitted to the Economic and Social Council in July 1949, which proposed a procedure to be followed by the United Nations and its specialized agencies for its implementation. These proposals were approved by the General Assembly of the United Nations on 16 November 1949 following which a Technical Assistance Board (TAB) was set up. consisting of executive heads or their representatives of the United Nations and of the specialized agencies The execution of the Technical Assistance Programme was entrusted to the TAB which is working under the chairmanship of the Secretary General of the United Nations or his representative The TAB is responsible to the Technical Assistance Com mittee an intergovernmental body consisting of members of the Economic and Social Council and authorized to meet when the Council is not in session. The functions of the TAB are to co ordinate the activities of the various organizations to exchange information on requests for services and on services rendered to plan joint programmes and to report to the Technical Assistance Committee In addition it is responsible for ensuring the minimum of overlipping with the large number of other organizations, governmental and non governmental not connected with the United Nations which are engaged in similar activities

A prehimnary meeting of the TAB was held on 15 16 December 1949, and regular meetings on 23 24 February and 20 21 April 1950. Agreements were reached on standard financial and administrative procedures and standard agreements with the participating governments as well as on a mechanism by which any specialized agency can have a programme discussed.

in the TAB Only important programmes implying joint planning and action by two or more specialized agencies are fully discussed by the Board the carrying out of programmes which do not involve co-operation being after approval by the

Board the responsibility of the relevant specialized agency

A Technical Assistance Conference was convened in June at Lake Success This conference had the re sponsibility of ascertaining the total amount of contri butions available from par ticinating governments for the execution of the Tech nical Assistance Programme during the first year of its operations It was also entrusted with giving final consent to the propor tionate shares of the total amount of contributions to be allotted to the various participating organizations A proposal already ap proved by the General Assembly of the United Nations assigned 22 / of the first \$10,000,000 made



FIG 2 Rajkumari Am t Kaur Preside t of the Third Health Assembly

available for this programme and 22% of 70, of the second \$10 000 000 to WHO

The Third World Health Assembly authorized the Director General to participate in the various bodies responsible for the implementation of

to participate in the various bodies responsible for the implementation of the Technical Assistance Programme and to carry out heilth programmes as soon as funds become available subject to policies established by the Assembly and Executive Board. The Director General has also been authorized to undertake technical assistance in countries which are not Member States of WHO. A programme for an additional period of participation will be prepared by the Director General and submitted to the Fourth Health Assembly.

CONTINUING NEEDS OF CHILDREN

Another policy decision with direct implications on the future programme of the Organization was related to the 'continuing needs of children. The status of the United Nations International Childrens Emergency Fund (UNICEF) a temporary body which was originally established to meet the relief needs of children in devistated and other needy regions is now under consideration. The emergency conditions which led to the establishment of UNICEF have now at least partly disappeared but the need for continued and co-ordinated action by the United Nations and its specialized agencies on behalf of children, whether with regard to health education or social well being is universally recognized Short term projects can however no longer be considered adequate they will have to be replaced by long term projects and decisions on the appropriate machinery for planning and carrying out such projects will have to be taken by the Economic and Social Council and the United Nations General Assembly

Specifically, the point at issue is to decide whether the best way of assisting children is to establish a new permanent specialized agency re sponsible for all aspects of internitional action on behalf of children or whether to entrust such activities to the existing specialized agencies—WHO in health FAO in provision of food UNESCO in education—another special body being responsible for raising funds and providing supplies for use in furthering the programmes of the various specialized agencies.

Opinion with regard to this mitter is divided and this was apparent also in the discussion which took place at the Health Assembly Several delegates expressed their countries deep appreciation of the contributions of UNICEF to child health and thought that nothing should be done which might jeopardize the continuation of its work. Other delegates argued that there could be no question about discontinuing the activities of UNICEF but merely of establishing more appropriate machinery In their opinion it was a fallney to consider the needs of children separately from those of the rest of the community The excellent activities of UNICEF were not questioned but it was pointed out that special agencies qualified to deal with the various problems - health food supply and educationwere already in existence and the establishment of a new specialized agency responsible for only one section of the population would be liable to produce overlapping of activities and responsibilities and to create difficulties Dr K Eving (Norway) pointed out that as a member of the Joint Committee on Health Policy UNICEF/WHO he had experienced such difficulties This committee had been placed in the difficult situation of either endorsing decisions because negotiations had already been started or because the emergency was very great or, by delaying assistance of laying itself open to the accusation of being unwilling to co operate. Such

a situation could not continue It was unimportant in his opinion which agency suffered in the long run what did matter was that children would suffer

The Director General also believed that the time had come when the problem of difficulties in technical collaboration between UNICEF and WHO at first thought to be of a temporary nature must be solved If the resolution of the United Nations Social Commission recommending that UNICEF should be continued were accepted by the General Assembly UNICEF would be far more than a supply agency and would in fact be entrusted with the serious responsibility of applying plans in the field thus acting in effect as another health agency. He further explained that another organ of the United Nations the Administrative Committee on Co ordination which is composed of the executive heads of the United Nations and the specialized agencies had been asked to study the question and had found it impossible to agree entirely with the recommendation of the Social Commission. While recognizing the importance of UNICEF's continuing to exist as a fund raising organization the Administrative Committee on Co ordination had been of the opinion that the utilization of funds should be entrusted to existing specialized agencies

After a full debate on this matter in the Committee on Programme the Assembly adopted a resolution affirming that WHO considers that in the future development of international programmes for children the principle should be adopted of utilizing to the maximum the services of the appropriate permanent specialized agencies and that any special machinery required by the United Nations should be limited to what is necessary for fund raising for co-ordination of programme planning and to the extent agreed upon by the agencies concerned for the procurement and shipment of supplies.

FINANCIAL PROBLEMS

More perhaps than the First and Second Health Assemblies the Third stressed the importance of exploring all possible means of increasing the resources of the Organization. The Assembly suggested to Member States that after consultation with and under the guidance of the Executive Board they adopt a suitable scheme for the issue of special world health slamps or labels for purchase by the public on a purely voluntary basis during such period or periods as Members might consider convenient. The monies raised by this means would be divided on an agreed basis between WHO and the country concerned. A further suggestion was that Member States might raise funds by the sale of flags on World Health Day. Both of these ideas were referred to the Executive Board for consideration so that a suitable plan might be developed and transmitted to governments.

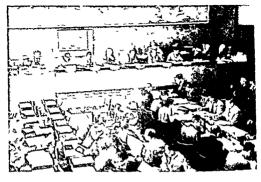


FIG 3 Committee on Administration Finance and Legal Matters in session

The suggestion made by the Belgian delegation at the Second World Health Assembly that a World Health Defence Fund be established was referred to the Executive Board for further study and the Board was instructed to defer this matter if it deemed it advisable to the Fourth Assembly.

Last year the Second Health Assembly approved a reduction of the USA contribution to the 1950 budget from 39 9% to 36% of the total assessment. This year the Assembly decided on a further reduction from 36% to 35°, This decision resulted from a resolution at the Second Assembly that the contribution of no single Member State should be greater than one third of the total budget of WHO According to this same resolution the contribution of the USA would have to be reduced to the new level gradually over a period of several years. In the course of the discussion concerning this matter in the Committee on Administration Finance and Legal Matters Dr W Judd Congressman from Minnesota and adviser to the US delegation stated that this decision showed the genuine desire of the majority of the Members to reduce the contribution of the USA to the WHO budget to one third of the total as soon as the situation permits. He added that this gesture would in his view have considerable influence on the attitude of the US Congress not only to technical assistance but also to the Bill now before Congress to raise the ceiling of the American contribution to WHO from \$1 900 000 to \$3,000,000

CONSTITUTIONAL PROBLEMS

For the first time a Health Assembly was faced with proposals for the amendment of the Constitution of WHO. One such proposal was builted by the Governments of Denmark. Norway and Sweden. Its object was to replace for reasons of economy of both time and money the annual general conference (Assembly) by a biennial general conference. The Assembly requested the Director General to study carefully the arrangements necessary for implementing the proposal made by the Scandinavian Governments if finally adopted and to submit to the Fourth Health Assembly a report on the amendments and transitional arrangements which would be required. According to the Constitution an amendment does not come into force until it has been accepted and ratified by two thirds of the Member States.

The Government of Australia proposed that Article 55 of the Constitution be amended so that the Executive Board should be specifically empowered to submit to the Health Assembly with the programme and budget prepared by the Director General its own comments and such amendments as it deemed advisable to recommend to the Assembly Although Article 55 does not specifically state that the Board is entitled to present its own comments and amendments to the budget the general



FIG 4 Committee o Administration Finance a diseast Matters Left to ight D J M ka (Lebanon) Dr S Hayek (Lebanon) Profes o G A C naperi (Italy) D J O n (is set)

feeling was that this is implicit in the context of the Article and that therefore an amendment to this effect which would require the slow ratification process, was not necessary. Nevertheless, to avoid any possible ambiguity on this point the Assembly adopted a resolution stating that the Executive Board may, at its discretion, recommend amendments when submitting the Director General's programme and budget estimates to the Assembly

Another proposal by the Government of Australia was that the nature of the Executive Board should be altered Under the Constitution, 18 States are elected by the Assembly to designate 18 persons "technically qualified in the field of health to serve as members of the Board for a period of three years In accordance with the provisions of Article 24 of the Consti tution the Executive Board as it is now composed exercises on behalf of the whole Health Assembly the powers delegated to it by that body The Government of Australia proposed that the Executive Board should be composed of the representatives of 18 States instead of 18 individual experts acting in their technical capacity. This proposal was inspired among other factors by the belief that recommendations are most likely to be accepted and implemented by the Member States if the governments themselves through their representatives have had a voice in shaping them at all decisive stages. A lengthy discussion on this proposal took place both in the Committee on Administration Finance and Legal Matters and in plenary session The Director General stated that he believed that this was much the most important matter facing this Assem bly, or that has faced any Assembly of the World Health Organization up to this time

The final decision of the Assembly was that, since the Exc. cutive Board as now constituted represents the World Health Assembly as a whole, it is in the best interests of the Organization to maintain the present status of the Board

ORGANIZATIONAL PROBLEMS

Membership

The Assembly admitted four new States to membership the Kingdoms of Cambodia and Laos the United States of Indonesia and the State of Viet Nam Southern Rhodesia was admitted as an Associate Member of WHO. The United States of Indonesia was assigned to the South East Asia Region. The State of Viet Nam and the kingdoms of Cambodia and Laos requested that they be temporarily assigned to the same Region and in the course of the Third Health Assembly, asked for the setting up in conjunction with the delegation of the Republic of the Philippines of the Regional Organization of the Western Pacific.

Regionalization

The Assembly noted with satisfaction the substantial progress made in the decentralization of WHO s activities. Three regional organizations—for South East Asia for the Eastern Mediterranean and for the Americas—are now well established. A step further was made in decentralization by the approval of the Assembly of the establishment as soon as possible of an organization for the Western Pacific Region. It was not possible to take a similar decision with regard to the African Region, as a provisional measure the Assembly approved the establishment of a supervisory office at Headquarters.

Membership of Executive Board

An important discussion took place with regard to membership of the Executive Board According to the Constitution six Members entitled to designate a person to serve on the Executive Board are nominated each year Chile El Salvador France Italy Pakistan and Thailand were elected this year and have designated a person who will serve on the Board for three years Membership of the Executive Board also involved a difficult legal problem this time. The suggestion was made that the person designated by the Byelorussian SSR to serve as a member should be replaced in view of the fact that although duly notified he had not attended the second third fourth or fifth sessions of the Board. Although as previously mentioned the WHO Constitution makes no provision for withdrawal the Assembly decided that the member of the Board designated by the Byelorussian SSR should be replaced Article 24 of the Constitution provides that the Board shall consist of 18 persons designated by as many Members Continuing absence of one or more members of the Board was considered to hamper it in the exercise of its functions. The Assembly elected Brazil to designate a member of the Executive Board to serve for a period of one year until the mandate of the Byelorussian member expires

National WHO Committees

Another question brought to the attention of this Assembly was the approintment of national WHO committees. Such a committee has already been established in Finland and has proved of value. The suggestion was made that national WHO committees might serve as lision agents between the respective countries and WHO in much the same way as national UNESCO committees function. The general feeling was that while WHO national committees could carry out a number of essential supporting and advisory functions for the benefit of the Organization as well as for national

rdministrations the initiative in setting up such committees should be taken by individual countries rather than by WHO. This decision also applies to the establishment of similar national WHO/FAO committees which would be concerned principally with problems in nutrition. The question was referred to the Executive Board for further study.

Office International d'Hygiène Publique

The Assembly noted the measures decided upon by the Office International d Hygiline Publique (OIHP) for the termination de facto of its retivities in particular those relating to the termination of the lease of the premises of that body and the dismissal of its staff. It accepted with grait tude the transfer to take place on 15 November 1950 of the library and at chives of the OIHP to which nationals of all countries will have unhindered access, and of the sums to be derived from the liquidation of its assets as well as the sums due to it—these to be devoted to epidemiological work to be carried out in accordance with the WHO programm. The Assembly paid tribute to the remarkable work carried out by the Office International d Hygiline Publique during the forty three years of its existence work which was rendered possible by close international co operation in this sphere of health and by the ability wisdom, and devotion of men of good will who took part in that work.

OTHER MATTERS

With regard to the programme of the Organization two decisions of principle are particularly worthy of mention. The first of these concern the pestilential discuses the Assembly considering the international importance of these diseases-plague cholera typhus, vellow fever, and smallpox-and the statutory obligations of the Organization with regard to them, instructed the Executive Board to give high priority to them i planning future activities and to place suitable activities directed toward their control in the regular budget. The second decision is the approve of a long term general programme of work covering a specific period 1952 to 1955 which is to serve as a framework for annual programmes This establishes the following criteria for the selection of activities to b included in the programme of work international fersibility and accepability, universal nature of the problem possibility of assessing progres and results financial fersibility availability of qualified personnel tra ditional international services, and co operative services (with the Unite Nations its specialized agencies, and other organizations) After details

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discussion of the general principles set forth in the long term programme the Assembly approved it but requested the Executive Board to examine it in the light of the discussion and to present a more detailed programme to the Fourth Assembly

In accordance with another decision of the Assembly WHO will play an increasingly important part in the BCG vaccination programmes which have already been started by the Joint Enterprise. The Scandinavian Co ordination Committee which has played an outstanding role in these campaigns has decided to terminate its responsibilities in the BCG vaccination projects. WHO has notified UNICEF that it is willing to undertake all technical functions necessary to assist governments in carrying out these projects jointly with UNICEF in the light of the experience accumulated in the campaigns already completed and of the recommendations of the Expert Committees on Tuberculosis and on Biological Standardization. The Director General was authorized subject to any relevant decisions taken by the Executive Board to negotiate an agreement with UNICEF for the integration of the BCG vaccination programme now administered by the Joint Enterprise with the relevant WHO services and to accept funds for the immermentation of such a joint service.

The Assembly expressed its thanks to the League of Red Cross Societies for the Count Bernadotte Memorial Medal given to WHO for advice and assistance rendered in meeting the health needs of the Arab refugees from Palestine

The Fourth World Health Assembly will be held in Geneva

PROGRAMME

The most noteworthy change in the WHO programme as approved by the Third Herlith Assembly is an increased emphasis on certain communicable diseases such as leprosy, plague, cholera, and influenza Nome of these diseases is new in the WHO programme but attention has formerly been given only to their epidemiological and laboratory aspects since budgetary limitations have made active promotion of control measures impossible With a budget of \$7,501,500 °s considered hardly adequate to cover even the needs of such priority subjects as malaria tuberculosis

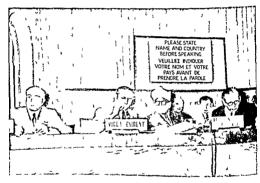


FIG 5 Committee on Programme Left to right Dr N Karabuda (Turkey) Rapporteur Dr J Allwood Paredes (El Salvador) Vice Chairman Sir Arcot Mudaliar (India) Executive Board representative Dr J A Höjer (Sweden) Chairman.

and venereal diseases the Second Assembly relegated other communicable diseases to a supplemental budget hoping that funds would later become available—probably through the United Nations Technical Assistance Programme—for implementation of the projects proposed This hope has not yet been realized, and the Third Assembly was confronted with the alternatives of pursuing the same policy and postponing action on these diseases or of reducing expenditure on other programmes to make room for them in the regular budget. The Assembly chose to adjust the

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budget to include suitable activities in relation to these communicable diseases—leprosy plague cholera and influenza—in the regular programme

The absence of any lengthy discussion at the Assembly on those subjects which were qualified as "priority diseases at the First Assembly—malaria tuberculosis and venereal infections—may be taken as an indication that these are now well established as WHO activities Expert committees on these subjects which have met in 1949 and 1950 have laid the foundations for the Organization's projects and have supplied expert advice on various public health problems to governments. The reports of these committees are discussed by the Assembly and new total control to the second time of the committees.

were discussed by the Assembly and new meetings were authorized for 1951. The methods of control of malaria and venereal disease which were discussed at some length at previous international meetings have been proved in the field in various parts of the world and general lines of action in regard to tuberculosis are now well established. The Assembly was satisfied with the results obtained and approved programmes which will follow the pattern drawn up by the previous assemblies. During 1951 efforts will be continued in helping governments to establish sound public health services and disease control organizations by provision by WHO of fellowships consultants demonstration teams and expert advice and information from headquarters.

STUDY AND CONTROL OF DISEASES

Malaria

The Assembly decuded that the malaria-control demonstration teams now working in India (Terai Jeypore Malnad and Ernad) Pakistan and Thailand should continue their operations during 1951. The same applies to the two new teams recently established one in Afghanistan and the ther in Iran.

The success of campaigns for the eradication of certain species of inopheles carried out in several areas confronts governments with the roblem of preventing the reimportation of anophelines into these areas or the first time in public health history the question of adopting interval on all regulations for this purpose can and must be seriously considered tally which is endeavouring to eradicate malaria-carrying anopheles from ardinia asked the First Health Assembly to study the possibility of devising idequate international regulations and to recommend measures of protection. The Expert Committees on Malaria International Epidemiology and Quarantine and Insecticides have all pointed out the necessity for obtaining information on the practicability efficiency and cost of various methods of dissinsecting ships before attempting to prescribe definite international

PROGRAMME

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spends about one fifth of its health budget on leprosy alone. He felt that the heavy burden involved might be lightened if his government were able to obtain expert advice from WHO—advice such as could be provided only by an expert committee. He proposed that leprosy be made a part of the regular programme. This proposal was supported by the delegate of India who mentioned the fact that of the world is 5000000 leprosy victims about 1 200 000 are found in India. Delegates from Iran and Korea also expressed a desire that increased attention be given to the problem of leprosy.

of teprosy

Dr R Chaussinand observer from the International Leprosy Association made a strong plea for action on the part of WHO. He reminded the Assembly that in many tropical areas more than 3 / of the population is infected with leprosy. He stated that the urgency of an international antileprosy campaign is beyond question since leprosy is a health problem of great importance in at least 35 countries represented at the Third Health Assembly. Such a campaign is possible now that the therapeutic action of sulfones has been proved and the cost of these medicaments is no longer too serious an obstacle. Experiments in various countries have shown that diamino diphenyl sulfone the parent substance of all the sulfone derivatives can be used directly in the treatment of leprosy. This is of the greatest interest since the cost is much less than that of the derivatives hitherto used

Dr Chaussmand also emphasized the urgent need for co-ordination of research on leprosy and said that WHO can render outstanding service in this direction. The need for research and the important contribution which WHO could make in this respect were likewise mentioned by the delegate of Barzil who drew attention to findings concerning lepromin Individuals who react positively to lepromin can be regarded as free from danger of infection. According to experiments made in Brazil 80% of the cases of negative reaction to lepromin treated with BCG or sulfones became positive. Research by WHO on BCG and sulfone treatment would be most valuable.

It is hoped that it will be possible to set up an expert committee on leprosy in 1951

Plague

A need for new emphasis on plague control was expressed at the Third Health Assembly The delegate of India deplored the fact that while provision had been made in the regular budget for recearch on plague no definite commitments for control measures had been included. The delegate of Australia also felt that plague is essentially a disease for international action and should be given more attention by WHO. This opinion was shared by the delegates of Ireland and Brazil the former emphasizing that one of the basic functions of WHO and one which the Organization

quarantine regulations against malaria decided that observation and experiments should be continued under the guidance of the Expert Committee on Insecticides until sufficient information has been obtained to serve as a basis for WHO regulators on this subject

Venereal Diseases

It is planned that in 1951 one anti-venereal-disease demonstration team will continue to operate in Europe one in Egypt, and one in India. Consultant services and training and research activities will follow lines previously established by the First and Second Assemblies.

The International Serodiagnostic Laboratory Conference, first of us kind since 1941, will be one of the important features of the 1951 programme. This conference will bring together authors of tests from all prits of the world and will offer an opportunity for comparing the efficiency and efficacy of various methods for the serodiagnosis of syphilis.

Tuberculosis

The Assembly decided that six demonstration teams would undertake tuberculosis field work in different parts of the world. WHO will continu to participate in BCG saccination comparigns and will collect and analyst scientific dith obtained therefrom at the Tuberculosis Research Office in Copenhagen.

The Committee on Programme heard an account of the work of the Tuberculosis Research Office from Dr C Palmer its director who ead that statistical reports and analyses of BCG vaccination campaigns are already under way. Records of more than 13 000 000 tests and 6 000 000 vaccinations have already been received and further reports on the campaigns in Czechoslovakia and Poland are nearing completion. Two extensive studies are being undertaken one in Finland and the other in Denmark to determine the effect of vaccination on tuberculosis morbidity. Detailed field and laboratory studies on the BCG vaccine itself and on a wide variety of questions regarding the tuberculin test are also in procress. The first results obtained from the Joint Enterprise vaccination campaigns have recently been made available to interested workers?

Leprosy

Several delegations expressed disappointment at the past failure of WHO to take concrete action with regard to leprosy. The delegate of the Philippine Republic called attention to the fact that his government

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aware of financial difficulties and of the need to keep within a realistic budget. However since as the delegate of Ireland pointed out the Organization's obligations with regard to pestilential diseases are quite clear the Assembly decided to include cholera in the regular programme of activities for 1951.

It is proposed to send two demonstration teams into the endemic areas of Bengal one into each of two districts in India and in Pakistan respectively. These teams each of which will consist of three WHO members (a bacteriologist an epidemiologist and a sanitary engineer) together with two local medical officers and the necessary auxiliary personnel will demonstrate cholera control methods and in addition will aid local health administrations in forming and training other groups to carry on control measures after WHO aid has been withdrawn. Since the problem of cholera is a complex one many different lines of attack will have to be tired by the demonstration teams. One of their tasks will be to evaluate the effectiveness of a new cholera vaccine and more than a single year s'observation may be required to ascertain the duration of protection afforded by this vaccine.

Smallpox

In the discussion of smallpox emphasis was placed on vaccines. The delegate of Ireland asked that steps be taken to make the use of direct smallpox vaccine more general. He called attention to the fact that the deterioration of ordinary vaccines in hot climates and the consequent insuscessful results could bring the whole vaccination procedure into disrepute. He proposed that WHO set up laboratories for testing vaccines for use throughout the world. The delegate of Belgium also expressed interest in the dried vaccine commending WHO is support of the production of dired lymph vaccine in its pure state since this preparation is not only the most appropriate for use in tropical areas but also tends to limit the violence of the reaction.

The Australian delegate stressed the importance of international cooperation with regard to smallpox control. He pointed out that an effective method of controlling this disease vaccination has been available for more than 150 years but that the peace of mind of those countries which have succeeded in eradicating smallpox is continually threatened by fear of its introduction from some less fortunate country.

introduction from some less fortunate country

The Assembly decided to ask the Expert Committee on Biological
Standardization to consider the establishment of a centre for the testing
and standardization of smallpox vaccines with particular reference to
dried vaccine. Higher priority will be given to smallpox in the regular
Programme for 1952

is well qualified to carry out, is the elimination of pestilential diseases, and the latter reminding the Assembly that WHO has an obligation inhented from the Office International d'Hygiène Publique with regard to the fite pestilential diseases. The delegate from Thailand pointed out that action is even more urgent now that the eradication of plague as a human disease seems possible

It is hoped that, in addition to providing consultant services and fellow ships and arranging for exchanges of personnel, the Organization will be able to assemble and equip an antiplague unit, of eight persons to assist and advise local personnel in campaigns against plague in Africa and in South East Asia.

The programme submitted to the Assembly included in addition a meeting in 1951 of the Expert Committee on Plague, stimulation of research in close relationship with the Haffkine Institute, Bombay, the training of plague control personnel in Africa, and publication of a manual on plague which it is believed would be extremely useful since no modern manual of this type is available. It is not certain however, whether funds will become available for all these activities

Cholera

A pestilentral disease which it was felt has not been given sufficient attention in WHO activities is cholera. A regular programme of study and field work on cholera was advocated by delegates of France, India, Pakistan and Thailand. In considering such a programme, the Assembly was fully



FIG 6 Dr Tha Mya and Mrs Daw Khin Kyl delegates of Burma at the Third Health Assembly

The Assembly heard a report on the work of the World Influenza Centre London which has isolated ten of the virus strains responsible for the 1948/49 influenza epidemic 1 In addition to this Centre 38 regional centres have been established Sera and antigens for diagnostic purposes are prepared at the Statens Seruminstitut Copenhagen and the World Influenza Centre supplies virus strains on request Work in co operation with these laboratories will be continued and expanded during the coming year. In addition fellowships for study and training at such centres will be provided.

It is hoped that an expert committee will be convened to assess results already obtained and to give direction to future research. Among the problems with which this committee will have to deal is the need for special laboratories equipped to isolate and identify influenza virus strains quickly in case of a pandemic such as that which occurred in 1918/19. The committee is also expected to study influenza vaccination problems and to prepare a large scale trial of vaccines. Despite considerable proof of efficacy under certain conditions influenza vaccination is known to have various drawbacks. Among these are relatively high toxicity possible conveyance of egg sensitivity short duration of immunity (a few months) and a high specificity of antibody response so that practically no protection against heterologous strains is afforded. It is hoped that the expert committee meeting will be able to contribute to present knowledge concerning these and other laboratory and epidemiological problems.

Poliomy elitis

On the proposal of the delegation of the Netherlands the Third Health Assembly passed a resolution urging all governments in their recording of the incidence of poliomyelitis to list separately the paretie and the non paretic cases. Such a distinction is important because of difficulties in diagnosing the disease, while non paretic cases it significant from a Epidemiological standpoint diagnosis is often less accurate because it can be established with certainty only by the isolation of the virus in monkeys which are rarely available. Requiring separate listings of the two types of cases should make comparisons of data easier and more reliable.

The fact that the Assembly did not take further action on the subject of poliomyelitis does not mean that this disease has been relegated to an unimportant position. In the absence of accepted methods of prevention of the disease and of specific treatment the time has not yet come for international action. The Assembly agreed however that new knowledge.

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Rickettsioses

The Health Assembly approved plans for a joint OIHP/WHO meeting of experts to discuss the problem of rickettsioses in Asia. A similar group which met in 1950 to discuss rickettsioses in Africa reached important conclusions regarding the classification of the diseases, mide suggestions for their prevention and treatment, and submitted a recommendation for the use by various diagnostic laboratories of standardized specific ricketsul strains. It is expected that the work of the expert group on rickettsiosa in Asia will develop along similar lines.

The Assembly give attention also to the problem of Q fever. The Director General was requested to initiate a preliminary study on the prevalence of Q fever throughout the world and in collaboration with other specialized agencies and organizations interested in the problem to encourage investigations clarifying the epidemiology of this disease with a view to formulating effective control measures.

Yellow Fever

Although the incidence of yellow fever is small thanks to measures against Acdes aegypti and to widespread immunization in the 'yellow fever areas this disease remains a serious international health problem. The delegate of Brazil emphasized the importance of preventing the transmission of the disease by A aegypti from endemic and epidemic areas to receptive countries.

The delegate of France called attention to the small number of officially recognized centres for inoculation against yellow fever, which means that long journeys often have to be made in order to receive the immunizing vaccine and appropriate international certificate

No meeting of the Yellow Fever Pinel in 1951 was considered necessary provided its second meeting takes place in 1950 as was decided by the Second Health Assembly. The panel will at its next session, assess results of studies undertaken thus far and possibly modify the lines of approach to the problem of yellow fever which were originally agreed upon

Influenza

For reasons of economy the original programme submitted to the Assembly included provision for only limited action with regard to in fluenza. However, discussions at the Assembly revealed a prevailing opinion that influenza had not been given sufficient attention, and it was therefore decided that this disease should have a more important place in the regular budget.

might become available in the near future and that meanwhile everything possible should be done to encourage and support research. There is hope that typing of poliomyelitis strains may advance sufficiently to justify the establishment of typing centres similar to the ones set up by WHO in influenza. The Assembly recommended the establishment in 1952 of an expert committee on poliomyelitis to co ordinate and evaluate research activities

Rabies

As a result of an important decision of the Third Health Assembly acting on the recommendation of the Expert Committee on Rabies 10 WHO will undertake a field trial to evaluate hyper immune serum plus vaccine as compared with vaccine alone as a preventive measure against rabies in man and a field demonstration on the control of rabies in dogs by use of a new egg adapted vaccine

The Organization will arrange regional meetings of authorities from nearby countries where rabies is a problem so that concerted attacks on this disease will be possible. In addition WHO will co ordinate the exchange of virus strains for the production and testing of rabies vaccines and will encourage wherever possible research on problems relative to rabies

Trachoma

The discussion on trachoma was opened by the delegate of Italy who thought that not enough importance has been accorded to this disease He was supported in this opinion by delegates of France Iran and Lebanon

The Joint OIHP/WHO Study Group on Trachoma which met in 1948 drew attention to the seriousness of the disease and recommended the establishment of a permanent expert committee to deal with problems relating to it 11 Studies recently published by WHO have shown the wide geographical distribution of trachoma 12 Modern methods of treatment particularly the results obtained with various antibiotics such as chloro mycetin penicillin and aureomycin will shortly be reported 13

Because of budgetary limitations the Third Health Assembly was unable to recommend concrete action on trachoma but it requested the Director General to establish as soon as the budget permits-preferably in 1951 an expert committee to study the problem of this disease and to submit proposals for control measures to the Fourth Assembly

A report on the first sess of the E pert Committee R bies will be published in first commit mber of the Chroni !

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FIG 7 Third Health Assembly in plenary meeting

Bilharziasis

Bilharziasis was recognized at the time of the Interim Commission as a major public health problem since it is prevalent in many African Amerian and Asiatic countries where it affects up to 90% of the rural population 11 However the Third Health Assembly believed that at this stage a concrete programme entailing provision of consultants demonstration teams equipment and promotion of training centres could be made only under the Technical Assistance Programme

The delegate of Brazil informed the Assembly that the National Depart ment of Health of Brazil has recently created two large centres for the investigation of helminthiasis particularly bilharziasis. He suggested that WHO might encourage such work in other countries.

The Assembly examined the report of the Joint OHP/WHO Study Group on Bilharzians in Africa 15 Emphasis was given to the importance of not planning any irrigation schemes in schistosoma infected regions without keeping in mind the danger that such schemes might contribute to the spread of the infection Effective measures of protection should be taken in all such cases

It is hoped that an expert committee on bilharziasis will be convened in 1951 to review the work done by the study group and to formulate a programme based on recommendations of this group and on surveys conducted in Africa and possibly America and Asia

Hydatidosis

The delegation of Uruguay drew the attention of the Health Assembly to the problem of hydatidosis which is a serious disease in certain areas of the world including parts of the Mediterranean region. Oceania Asia and South America. Apart from human infection this disease causes considerable economic losses in food producing animals which results in a diminution of badly needed food supplies. The facts concerning this disease are well known and its eradication is feasible in most areas through co-ordinated efforts to prevent the transmission of the parasite from dogs to man.

The Assembly requested the Director General to lend technical assistance wherever possible upon request of government authorities for the eradication of or research on hydatidosis in co operation with other specialized agencies and organizations

Epidemic and Serum Hepatitis

The attention of the Assembly was drawn to epidemic and serum hepatitis by the delegation of Sweden, which believed that specific measure can be taken to prevent or to reduce the incidence of the discasss and therefore proposed that an expert committee might be set up to consider this question. Such a committee would be expected to study, in particular the differential diagnosis of epidemic hepititis and serum hepatitis, the means of preventing both diseases, the possibilities of recommendant regular notification of incidence of the diseases on a national basis and the therapeutic measures available.

Delegates of France Ireland Italy and Switzerland supported the proposal of the Swedish delegation. The delegate of France mentioned that in his country it had been found that transfusions of blood plasma.

frequently caused serum hepititis

The Assembly, recognizing the high incidence and wide distribution of epidenic hepatitis and the serious practical problem involved by the possible conveyance of serum hepatitis by blood transfusions and parential application of human blood derivatives requested the Executive Board and the Director General to make arrangements for establishing in 1953 in expert committee to consider the problems of these diseases and to make relevant recommendations

Rheumatic Diseases

In accordance with proposals of the Danish and French delegations rheumatic diseases will be included in the programme of the Organization during the year 1952. It was not found practical to draw up a programme for 1951.

The French delegation in a note submitted to the Assembly pointed out that the public health authorities in Paris a city of 3 000 000 inhabitants are spending more than half a million dollars on treatment for persons afflicted with rheumatic affections. An extensive survey organized in Great Britain in 1922 revealed that rheumatic diseases were responsible for one sixth of the industrial invalidity cases. Approximately 12% of the population of the USA is believed to suffer from rheumatic diseases, in Massachusetts for example chronic rheumatism is nine times as prevalent as tuberculosis and twelve times as prevalent as cancer. Other statistics were also quoted by the French delegation to underline the importance of these diseases.

The Assembly requested the Director General and the Executive Board to include rheumatic diseases in the programme for 1952 and to set up an expert committee which might suggest concrete proposals to be submitted to the Fifth Health Assembly

Salmonella Infections

The Assembly had before it a proposal that the name of the Inter-national Salmonella Centre be changed to the International Salmonella and Escherichia Centre This matter was referred to the next session of the WHO Expert Committee on Biological Standardization The reason for this proposal was that the Centre at Copenhagen is already recognized throughout the world as an authority on the serology of the Escherichia group During 1949 the Centre devoted increasing attention to the Entero bacteriaceae particularly the Escherichia group in addition to its work with the Salmonella Impetus to studies on the Escherichia group has been given by investigations on the Fscherichia etiology of epidemic gastro enteritis in infants in Denmark the Netherlands the United Kingdom and the USA

A grant by the Assembly will enable the WHO Centre at Copenhagen to continue to serve as a diagnostic and typing laboratory for the various salmonellae During 1949 2 106 test strains and 714 ampoules of test sera totalling more than 5 litres of sera were sent by the Centre to its 34 national subcentres throughout the world

The Assembly requested the Expert Committee on International Epi demiology and Quarantine to consider the possibility of utilizing methods for facilitating the campaign against typhoid and paratyphoid B in particular by means of international collaboration for the discovery of carriers and the application of methods to prevent the infection of food

THERAPEUTIC SUBSTANCES

Antibiotics

Discussions on antibiotics at the Assembly indicated that the non availability of these drugs remains a serious problem in many countries. The delegate of Uruguay pointed out that the ever increasing number of such drugs further complicates the questions of production and control and of clinical application. No government he maintained can afford to ignore the important questions connected with modern antibiotic therapy. and the Government of Uruguay-like many others-is anxious to establish a laboratory devoted to research in this domain. Yet there appears to be no school or university in the world where adequate instruction can be obtained for technicians required to operate such a laboratory Moreover since there is no official organization capable of furnishing suitable plans equipment and information for such a laboratory the only resources available are those furnished by contracting firms

The Assembly felt that the whole issue of antibiotics was too important

to be settled by a short discussion and therefore referred the matter to the

Brucellosis

The importance of brucellosis as a public health problem was recognized by the Assembly, and it was pointed out that recent investigations have indicated that present reporting does not give a true picture of its prevalence. In the USA for example, brucellosis is the principal human disease due to animal infection with an estimated number of 40,000 cases annually of which only some 6 000 are recorded. This high incidence occurs although more than 80% of the milk of the country is presentized. The disease is especially widespread among rural populations and is responsible not only for considerable physical suffering but also for prolonged incapacity which impedes agricultural production. It is a major communicable disease in most parts of Europe particularly in the south and certain parts of Africa Asia, and the Americas. The wide geographical distribution of brucellosis and the economic implications of its effects make it a suitable subject for international action.

It is hoped that WHO will convene in 1950 and 1951 expert consultations of authorities on brucellosis and that the Fourth Health Assembly on the basis of the report of this group will be able to enlarge its programme for 1952

The Third Assembly heard a progress report on the work of the regional bruceflosis centres designated by WHO in 1949 1950. These centres in addition to preparing and testing standard antigens and conducting dag nostic and therapeutic research have been serving as instruction centres for laboratory workers. The work of the centres will be continued during the coming year. The WHO bruceflosis programme is being cartifed out in close co operation with FAO and the International Office of Epizodies.



FIG. 8 Left to right. Dr Tran Van Bang and Dr Dang Huu Chi. delegates of Viet Nam. at the Third Health Assembly.

Serum gonadotropin	0 25	mg
Prolactin (galactin or mammotropin)	01	mg
Heparin	0 0077	mg
Penicillin G	0 0006	mg
Streptomycin		•

U t potency to be as gn d t the e t sess on of th E pert Committee o B long ! Standa d zat o

It was also recommended that these standards and units be introduced into national pharmacopoeias to serve as a reference for assay In those countries which do not possess a national pharmacopoeia the potency appearing on the labels of biological products should be expressed in international units

Drugs Liable to Produce Addiction

The principal subject of the discussion on drugs liable to produce addiction was a proposal that the use of diacetylmorphine (heroin) be prohibited. The delegate of Greece was convinced that diacetylmorphine is not essential for therapy since it can be replaced by other less toric drugs The use of this drug is prohibited in the USA and 24 other countries which have agreed that it is harmful but since others still permit its use a complicated situation is created which makes the suppression of illegal traffic difficult The Greek delegation therefore believed that it would be of great benefit if all countries would agree to outlaw diacetylmorphine

The delegate of Turkey said that in his country careful studies have shown that diacetylmorphine is not absolutely necessary for therapy and he proposed that the Assembly take steps to suppress its use This was in spite of the fact that such a decision would be against important economic

interests of Turkey

It was not possible to reach a unanimous decision with regard to this matter and the proposal that the use of diacetylmorphine be prohibited was defeated in the Committee on Programme by 12 votes to 8 with 9 abstentions

The WHO programme for 1951 as approved by the Assembly includes two meetings of the Expert Committee on Drugs Liable to Produce Addic tion

Pharmacopoea Internationalis

The publication of the Pharmacopola Internationalis was approved by the Third Health Assembly Both the English and the French editions are expected to be available by the end of 1950 or early in 1951 Assembly recommended the eventual inclusion of the provisions of the Pharmacopoea Internationalis in national pharmacopoeias

Executive Board for further study. The Board has been requested to consider the destrability of asking the Expert Committee on Antibiotics. We to examine the feasibility of drawing up a concrete programme for the training of experts in research and preparation of antibiotics of setting up under the supervision of WHO a pilot plant for the production of and research in antibiotics and of collecting and making available to interested health administrations precise information on the construction and operation of an antibiotics plant including equipment and material required and personnel needed for effective operation.

International Biological Standards

The Third Health Assembly recommended that all Member States recognize officially the international standards and units listed below

International standard preparations	International unti	
Diphtheria antitoxin	0.0628	mg.
Tetanus antitoxin	0 3094	mg
Antidysentery serum (Shiga)	0.0500	mg
Scarlet fever antitoxin	_	•
Staphylococcus alpha antitoxin	0.5000	mg.
Antipneumococcus serum (type I)	0.0886	mg
Antipneumococcus serum (type II)	0.0894	mg.
Gas gangrene antitoxin (perfringens)	0 2660	mg
Gas gangrene antitoxin (vibrio septicum)	0 2377	mg.
Gas gangrene antitoxin (ordemations)	0 2681	mg
Gas gangrene antitoxin (histolyticus)	0 3575	mg
Gas gangrene antitoxin (Sordelli)	0 1334	me
Antı A blood group serum	0.55.	•
Anti B blood group serum	_	•
Old tuberculin	0.01	mi
Diphtheria antitoxin for flocculation test	001	
Vitamin A acetate	0.000344	ms
Provitamin A (β-carotene)	0 0006	m¢
Bitamin B ₁ (pure synthetic vitamin B ₂)	0 003	mg
Vitamin B ₁ (pure crystalline)	0.002	•
Vitamin C (/ ascorbic acid)	0.05	mg
Vitamin D ₃ (crystalline)	0 000025	mg.
Vitamin E (a tocopherol acetate)	10	mg
Neoarsphenamine	10	
Sulpharsphenamine	_	
Insulin (pure crystalline insulin)	0.0455	mg
Pituitary (posterior lobe) powder	0.5	mg
Digitalis	760	mg
Ouabain		
Androsterone	0.1	mg
Corpus luteum hormone (progesterone)	10	mg
Chorionic gonadotropin	o i	mg

¹ For report on first se sion of this committee see Ch on 18 o Id Illih O g 1950 4 161

necessary The USA is concerned about the problem because 680 000 American citizens who will be travelling abroad this year might be detained for reasons which the US Government feels have no proper medical justification and shipping and air services may be involved in registable delays and expense

The Assembly recognized the need for a detailed technical and I gal discussion of the draft WHO samilary regulations to enable all Mumber States to express their views Therefore a special committee will be convened about four weeks before the opening of the Fourth Health Assembly in Geneva This committee will consist for representatives of all the Member States Transportation expenses of delegates and advisers attending meetings of the special committee will be paid by their governments

Emergency Measures for Mecca Pilgrimage

One of the most urgent problems before the Assembly was deciding on how emergency measures could be taken to protect the Mecca Pligmmage in 1950 and succeding years. The Egyptian delegation referred to the cholera epidemic of 1947 which proved that present quarantine measures are not adequate and asked for special measures of protection pointing out that an immediate decision had to be taken since the movements in connexion with the Pilgrimage were to begin in June. Memories of cholera epidemics which occurred during past Pilgrimages increased the general sense of responsibility and urgency.

The delegate from Egypt gave a brief history of protective measures taken in the past Definite proposals to safeguard the Meccan pligning from choleral were submitted in April 1946 to the Office international d Hysiene Publique by the governments of the Pan Arab League These proposals which were in respect of the measures to be taken prior to the departure of pilgnins from their countries of origin included

- (1) bacteriological examination of the stools of pilgrims
- (2) vaccination of all pilgrims
- (3) placing under observation pilgrams from areas where cholera cases had occurred during the previous three months

In the course of the discussion of these proposals the opinion was expressed that such measures were impractical and unduly expensive. No final decision was reached and the whole question was referred to a WHO expert subcommittee which met in Alexandria in April 1947. The majority of this subcommittee including members from France India and the United Kingdom rejected the proposits. Five months later—the

Non proprietary Names for Drugs

The Assembly had before it for consideration a proposal that Wilo should attempt to establish an international system of non-proposary names for drugs. The delegate of Portugal strated that it was unfortunat that some of the most valuable drugs should be known under different names, varying according to the country where they are sold. Any impelies that can be given by WHO to the introduction of common" (son proportedary) names of new chemicals for medicinal use will be of greatest value.

A similar opinion was expressed by the delegate of Greece, who stated that the situation regarding proprietary names of drugs is so confusing that often doctors are quite unawire of what is in a particular preparation they give to their patients. Manufacturers should be urged to put also the common name of the drug on the label and steps should be taken to ensure that common names cannot be used as trade names.

The Assembly decided that the Expert Committee on the Unification of Pharmacopoeas should undertake the selection and approval of non-proprietary names for drugs included in the Pharmacopoea Internationalis and that such names as are from time to time selected and approved by this committee should be communicated by the Director General to authorities concerned with national pharmacopoeias together with a recommendation that these names be officially recognized and approved and if the substances are eventually included in the national pharmacopoeia, adopted as pharmacopoeial names

SANITARY REGULATIONS

International Sanitary Regulations

The new international sanitary regulations which are to replace the present International Sanitary Conventions are in an advanced state of preparation, and the Third Health Assembly had to take a decision on the procedure to be followed for the introduction of last minute adjust ments and the preparation of the final draft which will be submitted to the Fourth Health Assembly for approval

The delegate of the USA stressed the importance of adoption of the

The delegate of the USA stressed the importance of adoption of the new regulations by the Fourth Health Assembly. He stitled that the urgency of the question is increased because the Conventions at present being applied are cracking at the seams. Certain countries are going beyond the terms of the international conventions because new problems are arising with which the old conventions are not adequate to deal. New epidemiological situations have arisen and new control methods are

necessary The USA is concerned about the problem because 680 000 American citizens who will be travelling abroad this year might be detained for reasons which the US Government feels have no proper medical justifi cation and shipping and air services may be involved in reg ettable delays and expense

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Egyptian delegate pointed out—choleri broke out in Fgypt with more than 20,000 cases and 12 000 deaths 'tragically proving that the quarantie mechanism in force was not an adequate safeguird against cholera' The delegate made it clear that his proposal to the Third Health Assembly was not to be taken as an indication that this cholera epidemic had been related to the Prigrimage He believed however, that if the proposals presented by the governments of the Arab Leigue had been accepted and put into force, and passengers from India—which had presumably been the source of the infection—had been examined for carriers the epidema in Egypt might have been avoided.

This led to a discussion on the question of cholera carriers and the tole they play in the dissemination of cholera, a subject debated by eyeris for some considerable time. The delegate of Pakistan affirmed that research in endemic areas in India and Pakistan had led to the conclusion that although the cholera subrio was to be found in the stools of convalescents or of contacts it did not remain alive beyond a period of 28 days. In his opinion in the present state of knowledge there is no case to show that either convalescents or people who have been in contact with the disease can after more than a month be responsible for its transmission. He pointed out that the Governments of India and Pakistan were already taking measures with regard to the Pilgrimages every pilgrim receiving before departure two anticholera injections. Furthermore, the journey by sea from India and Pakistan to Jedda requires seven to eight days, i.e. longs than the incubition period of cholera. The delegate of Pakistan therefore urged the Assembly to give serious consideration to whatever decision might be reached since in view of the large numbers of pilgrims involved no government would wish to subject its people to uncomfortable and unnecessary mensures for which there was no scientific backing.

The delegate of Pakistan was supported by the delegate of India who reminded the Assembly that the relevant expert committee of WHO had recommended that pilgrims receive two injections of cholera vaccine the second to be administered just before arrival at Jedda

In reply the delegate of Egypt said that so long as the possibility of transmission of the disease by means of a carrier could not be ruled out even though it might not be proven international quarantine measure were required. He pointed out the conclusion of the Joint OHIF/WHO Study Group on Cholera that for purposes of international saintary regulations, a demonstrated carrier whether a convalescent carrier or not should be submitted to the measures provided for cholera cases. If Further more, it should not be forgotten that inoculation while it protects the individual is no guarantee that the person is not a carrier. The fact that the sea journey requires seven to eight days is not in the opinion of the

¹¹ Off Rec World Hith O # 11 17

Egyptian delegate relevant because air traffic must also be considered. The Egyptian epidemic had as a matter of fact been imported most probably from India by air. He therefore asked the Assembly to protect Egypt against infection arriving either by sea or by air and expressed his belief that although measures adopted would affect adversely the shipping and airline companies the primary consideration must be human protection and not vested interests.

Several proposals were submitted to the Assembly one made by the delegate of Egypt that a special committee on cholera should immediately examine the situation a second by the delegate of Lebanon that representatives of the interested countries should meet after the session of the

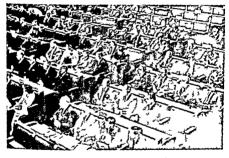


FIG 9 Third Health Assembly in plens y me t g

Assembly a third made by a special working party of the Assembly which recommended in substance that the Government of Egypt should approach directly the Governments of India Indonesia and Pakistan with the object of concluding among themselves special agreements as to measures of protection. The List proposal was accepted with the modification suggested by the delegate of the Netherlands that Indonesia should not be included inasmuch as no epidemic had occurred in that country for the past twenty years.

The Government of Egypt is thus expected to approach the Governments of India and Pakistan stating the measures which it would be desirable for them to adopt before the beginning of the next Pilgrimage

season. It was decided that any agreement reached between these goverments should be communicated to WHO.

The Assembly further considered that as the adoption by it of intermemergency regulations on the Pilgrimage would entail considerable administrative difficulties and as these regulations would, in order to become operative, require the consent of the countries concerned, there would be no advantage in following such a course in preference to the voluntary adoption by the interested countries of special national legislation

International Certificates of Vaccination

The present form of international vaccination certificates and the requirements in connexion with their issue might be considerably simplified. The WHO Expert Committee on International Epidemiology and Quaran time has therefore recommended that

- the international certificate of vaccination against yellow fever be considered valid ten days after the viccination and for six years from the date thereof.
- (2) for the ordinary traveller international certificates of vaccination against cholera be valid after a single injection and for a period of six months following that injection.
- (3) international certificates of vaccination against cholera and smallpot be signed by a medical practitioner whose identity is authenticated by an official stamp or whose signature is authenticated by a person legally qualfied to do so
- (4) vaccination certificates against cholera or smallpox made out by a medical officer belonging to the Armed Forces or to a national or local health service require no authentication other than affixation of the official stamp of the service concerned.

Implementation of these recommendations appears somewhat difficult however in view of the fact that the vaccination certificates form part of the International Sanitary Conventions of 1944 and can be replaced of modified only by an act of equivalent legal force. This would involve a lengthy process of ratification by governments of all Member States a procedure which might not be completed before several years have elapsed. At the Assembly the delegate of the USA emphasized the urgent need for rapid simplification of the present system particularly in view of the large numbers of persons who are travelling by air. On the proposal of the United Kingdom delegation it was decided that while consideration of replacement of existing international certificates would be postponed until such a time as the new international sanitary regulations are adopted by the Fourth Assembly 39 health administrations might meanwhile enter into

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bilateral or multilateral agreements in the adoption for their travellers of simplified forms of vaccination as recommended by the Expert Committee on International Epidemiology and Quarantine

PUBLIC HEALTH ORGANIZATION

Public Health Administration

Each of the Organization's programmes has its own importance but the work of WHO will be judged mainly by its success in helping to develop a strong national health administration in every country. No programme will be of permanent value unless there is a local health administration to carry on and to extend the work when outside help has been withdrawn Public health administration is therefore one of the most if not the most important concerns of WHO.

It is impossible to give a comprehensive idea of all that the Assembly decided with regard to this subject since most of the Organization s activities are directly related to public health administration. Specifically the Organization will engage in 1951 in the collection of information on the mewer techniques in health administration now being evolved in various parts of the world. Arrangements will be made to supply this information to all governments desiring it. Another feature of the programme is travel ling seminars on public health administration for selected groups of medical officers. Under the fellowship programme medical officers from each region will attend an intensive course in public health administration for a period of from eight months to a year. Each regional office will have advisers in public health administration to assist in the development and co-ordination of health programmes. Expert consultants will also be available to advise governments on problems of public health administration and to participate in the training of medical and auxiliary personnel

Environmental Sanitation

Perhaps more than any other WHO programme that on environmental santation is concerned with the training of specialized personnel. Although a high proportion of avoidable deaths are attributable to faulty environmental conditions expert personnel to deal with santation problems is lacking in most parts of the world. In fact, the very conception of sanitary engineering is unknown in some countries.

A start in WHO; efforts to remedy this situation was made by the Third Health Assembly in its decision to assign two advisers on environ mental sanitation to each of the six regions to give advice on health programmes including demonstration projects. Public health engineers and assurarians will be attached to WHO teams to assist in developing balanced

health programmes and in training personnel for future work in demonstra ton and other areas In addition, high priority has been given to the training of similation personnel as part of the fellowship programme

Health Education of the Public

Delegates of Brazil Chile India Israel and Lebanon stressed the great need for developing health education activities as an integral part of organized health services. The delegate of Chile urged that particular attention be given by the Organization to helping countries develop health education methods suited to the specific psychology and circumstances of their population

Experience in various countries has shown that more effective and lasting results are obtained when health projects and services have the active support and participation of the people. Ways and means of getting public support have not been studied except in the more advanced coun national health administrations on modern methods of health education of the public

The Organization s programme for 1951 includes assistance to govern ments in establishing or improving health education programmes, advice to governments on school and community health education programmes and on preparation and production of visual materials, demonstration of health education techniques and procedures, often in conjunction with another project such as one relative to malaria, maternal and child health provision of consultant services and fellowships, training courses seminars and conferences in health education WHO will co operate in joint projects with other United Nations specialized agencies and with governmental and non governmental organizations

Nursing

Like its predecessors the Third World Health Assembly approved programmes which depend on the direct assistance of nurses for their successful execution During 1950 WHO has provided in co operation successful execution Buring 1930 WHO na provided in co operation with UNICEF personnel for nursing and midwifery programmes in Borneo Brunet Malaya and Sarawak. The Assembly approved similar projects for 1951 nurses will be sent to Afghanistan Burma the Philippine projects for 1991 moses and o sent to Augmanistan Burma the Printipping Republic Thuland and other countries. Nurses who have served or are serving in field projects as members of demonstration teams have proved the efficacy of medical teamwork as well as the value of nursing services This type of co operative effort will be continued

In discussing the great need for nurses the Assembly recognized the advisability of raising standards of nursing education and services and of improving the working conditions of nurses. Delegates of the USA and other countries called attention to the fact that a major cause of the searcity of nurses is unsatisfactory working conditions such as long hours and low salaries. In many areas lack of adequate social status is also a serious problem and is one of the reasons for difficulty in recruiting candidates for training. An adviser to the United Kingdom delegation stated that lowering the standards in training does not increase the number of applicants for nursing courses on the contrary experience in her country has shown that a raising of the standards structs more as well as better candidates. She also made a plea for better living conditions for student nurses they should be regarded as students of a profession and should enjoy the same type of living and learning conditions as those in other professions

The WHO nursing programme as approved by the Assembly includes under the guidance of the Expert Committee on Nursing the establishment and the promotion of internationally applicable principles and techniques in nursing education and in the administration of nursing services. Assist ance will be given to national health administrations in raising the standards of their nursing services both quantitatively and qualitatively to the highest possible level. The delegate of Brazil stated that even in countries where nursing education is more advanced there is still insufficient emphasis on public health. The Assembly stressed the importance of planning nursing education so that all nurses may be given an understanding of the social and preventive aspects of modern health work as well as of therapeutic techniques.

GENERAL PROMOTION OF HEALTH

Maternal and Child Health

The programme for maternal and child health as approved by the Assembly includes continuation of maternal and child health work in the field. The five maternal and child health regional advisers will continue to encourage and sponsor the development of projects. Demonstration teams will also continue to work in the various regions.

In addition the programme includes the collection evaluation and classification of information received from governments regional offices and other sources. The information will be distributed to countries regional advisers consultants and demonstration teams. The programme also includes provision of fellowships expert advice through meetings of the expert committee and expert groups and seminars and courses

Seminars will be organized on a regional basis in order to bring together leaders in maternal and child health work particularly administrators

health programmes and in training personnel for future work in demonstration and other areas. In addition high priority has been given to at training of sanitation personnel as part of the fellowship programm.

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- FAO/WHO Expert Committee on Nutrition for further study the various aspects of the prevention and treatment of severe malnutrition particularly
- (1) recommendations concerning the storage of food by governments as well as by private persons in order to diminish the risk of severe mal nutrition and starvation
- (2) overall measures to be taken in planning the conservation and distribution of available stocks of food so as to prevent starvation and severe mainutrition in populations suffering from severe lack of food
 - (3) proper treatment of patients suffering from starvation
- (4) measures to be taken during relief activities to prevent the deteriora tion of the physical and mental state of persons in the different types of famine
 - (5) organization of general relief activities in relation to nutrition when famine conditions prevail and
- (6) any other measures that might be deemed recommendable for the prevention of disease and death caused by severe malnutrition and starvation

Difficulties in the production of synthetic vitamins in underdeveloped countries were brought to the attention of the Health Assembly This problem has been discussed by the Joint FAO/WHO Expert Committee on Nutrition and by the Executive Board which expressed the belief that the most satisfactory way of improving nutrition is by the provision of natural foods in such quantities and proportions that the diet is well balanced and supplies in sufficient amounts all the nutrients needed for health The Third Health Assembly resolved however that WHO should be concerned with synthetic vitamin production to the extent of supplying whatever information or assistance may be available to any country manu facturing or contemplating the manufacture of these products

The Assembly also studied a proposal to establish national FAO/WHO nutrition committees in all countries to serve as a link between the Organiza tions and the various countries with regard to nutrition problems. It was decided to leave the formation of such committees to the initiative of individual governments

Professional and Technical Education

The emphasis given to professional and technical education at previous health assemblies and at meetings of the Executive Board has indicated that this is considered a province of particular importance for WHO
Discussions at the Third Health Assembly confirmed this viewpoint
While the Second Assembly had to be concerned with Tijing down

fundamental principles for a programme on professional and technical

and teachers of various countries. Discussions will be led by local or visiting consultants, who will be provided with literature and teaching equipment.

Governments should be encouraged to set up special sections within their public health administration and to co ordinate their maternal and child health programmes with others, particularly those for nutrition and mental health

Mental Health

The 1951 programme for mental health is based on the priorities recommended by the Eypert Committee on Mental Health at its first session. One of the chief concerns is shortage of trained personnel, which is a more serious problem in this thin in any other branch of medicine

The Assembly approved two lines of approach for the Organization's activities in mental health

- (1) Assistance will be given to governments in the development of institutes for the truning of psychiatrists clinical psychologists, psychiatric social workers and psychiatric purses
- (2) Public health administrations will be urged to devote their efforts not only to the development of therapeutic psychiatric services which is a long term task but also to presentive measures with regard to mental health which have in the past, been largely neglected

The Organization will also help to promote the teaching of mental hygiene to public health workers by providing assistance in setting upmental hygiene divisions in schools of public health and by aiding governments which wish to hold courses in this subject for medical officers and public health nurses

Nutrition

In the discussions concerning WHO activities in nutrition the Nether lands delegation drw attention to the fact that in several parts of the world, starvation has been and still is the direct cause of death of millions. The Assembly was reminded of the winter of 1944 and the following spring when 4 000 000 inhabitants of the Netherlands faced death by starvation. This was recalled to emphasize that although frame may be a special cause of sickness and death in the so called underdeveloped areas of the world it has occurred and cause or in the future in all parts of the world when disaster of one type or another strikes. In view of this fact, the Assembly approved a request that the Director General refer to the Joint

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Many delegates spoke in favour of using WHO fellowships for training abroad undergraduate medical and nursing personnel for countries which have no training facilities of their own and no means of providing them. The trainees upon their return could constitute the nuclei of local training institutes to be established later.

Assistance to educational institutions will be another important activity of WHO in 1951. This will comprise advice on the organization and programme of training sending of lecturers and provision of medical literature and teaching equipment.

Other activities will include a meeting of experts on medical education assistance in the organization of courses seminars and study groups and participation in various joint educational activities of the United Nations and of the other specialized agencies

Co-ordination of International Congresses of Medical Sciences

WHO will continue to give advice and material assistance to the Permanent Council for the Co ordination of International Congresses of Medical Sciences which was established under the auspices of UNESCO and WHO in 1949 Dr K. Soddy member of the Executive Committee of the Council gave an account of the work done during the past year and outlined briefly some of the future projects. The Council is expected not only to co ordinate conferences and conference techniques but also disseminate information resulting from conferences i.e. proceedings and scientific findings. A particularly interesting development is the promotion by the Council of advanced short seminates or courses organized in connection with international medical congresses and of small symposia of experts. For example, a meeting of 15 experts from different countries will study the geographical distribution of diseases cancer in particular another group will study the biology of muscle and muscular affections.

The Council which is financed mainly by WHO and UNESCO is a non governmental body with more than 40 international member organizations. Its legal seat is in Brussels and its secretariat in Paris

HEALTH STATISTICS

The reports of the Expert Committee on Health Statistics ²² and of its three subcommittees—on cancer statistics ²³ hospital statistics ²⁴ and the definition of stillbirth and abortion ²⁴—were approved by the Third Health Assembly The last is especially significant in that birth statistics mucht

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education, the Third Assembly had the report of an expert committee" to serve as the basis for discussion and was therefore able to deal with more specific problems

One of the primary considerations was the problem of distribution of doctors Examples of various solutions were given by the delegates of different countries e.g., obligation to work in rural areas before settling down in a larger centre, support to doctors in rural areas in the form of houses dispensaries and other facilities. In some countries, such as Norway, health insurance schemes have been helpful in bringing medical care to rural districts

The delegate of Australia called attention to the anomaly that, despite the great need for doctors, there are among the displaced persons in Europe thousands of highly trained medical personnel who unable to practice their profession are working at menual occupations. He suggested that WHO might collaborate with the International Refugee Organization in an attempt to rectify this situation

Opinions were expressed concerning the nature of professional education Several delegates stressed the desir ibility of developing a community outlook in doctors so that they would be interested in all the social problems of the community The Assembly recognized the importance of the sociological and preventive components of education of health personnel and agreed to call the attention of governments to the necessity of adequate preparation along these lines, with particular emphasis on preventive and psychosomatic medicine and social pathology

The need for establishing international standards of medical education was also emphasized in view of the danger that in certain countries parti cularly those which are underdeveloped an effort to train large numbers of doctors might tend to lower their standard of education. The opinion was expressed that in areas where training resources are scarce and the number of doctors is small it would be preferable to put auxiliary personnel to work under the supervision of doctors rather than to attempt to train more doctors rapidly by lowering the standards of medical education

There was general agreement that fellowship grants, which are one of the chief means of implementing WHO's programme with regard to professional and technical education should under no circumstances be curtailed even if this should mean sacrifices in other budget items

The delegate of Israel had a concrete suggestion to make concerning the preparation of candidates for WHO fellowships each candidate should the preparation of canonical to the first state of the prevailing studion in his own country in the field of his study. This would ensure his awareness of the special problems he would be called upon to face

For report on first sessi n of this committee see Ch H orld Hith O g 1950 4 119

EDITORIAL AND REFERENCE SERVICES

On the proposal of the French delegation the publications programme of the Organization will be re evaluated from the standpoint of structure and frequency of the various publications. The Assembly requested that the Director General submit a special report to the Executive Board and the Fourth Assembly on the principles and measures adopted with regard to the publications programme and that the Executive Board in turn present its observations and comments on this report to the Fourth Assem bly The Executive Board was also asked to consider a proposal made by the delegate of the Netherlands that the Bulletin of the World Health Organization be published in a single edition containing articles either in English or in French according to the language in which they are written with summaries in both the working languages of the Organization

The most satisfactory method of presenting information in the Inter national Digest of Health Legislation was also considered by the Assembly but this problem too was referred to the Executive Board for further study and ultimate decision

On recommendation of the Executive Board it was decided to defer for future consideration the proposal to publish an International Health Yearhook

OTHER PROBLEMS

It is impossible to give a full account of the discussions at the Assembly and to accord every subject its proper importance. However mention at least should be made of those programmes which although they do not play a predominant role in WHO activities at present may assume greater significance in the future as more funds become available. Among these is for instance the rehabilitation of the disabled including the blind WHO participation in international projects on this problem is limited by the priorities already established which means in effect that rehabilita tion is a concern of the Organization only as part of a priority programme (e.g. maternal and child health tuberculosis). However, the Assembly requested the Director General to co operate fully with the United Nations and specialized agencies and to develop proposals for WHO participation in combined programmes with these organizations for 1952. The Executive Board will follow closely any developments along this line and limited work will be undertaken in 1951 as the budget permits

Physical training which has been under discussion since the First

Health Assembly is another domain in which it was decided that little could be done during the coming year

in the future be based on the new definitions of live birth and foetal death which were set forth by the subcommittee and which might now be adopted by Member States. This should result in a notable improvement in the comparability of such statistics.

Some delegations expressed concern that because of budgetary limitations no clearing centre has been established for the study of problems rising in connexion with the application of the new Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Disah adopted by the Second Health Assembly A special resolution was passed by the Third Assembly for the establishment as soon as possible of such a clearing centre within the Secretariat

On the proposal of the French delegation the following questions will be referred to the Subcommittee on Hospital Statistics for further study

- (1) the number of beds deemed necessary for each hospital service for a given population
- (2) the best methods of calculating the rate of hospitalization and th average duration of stay in each service,
- (3) the best distribution of hospital services within a community due regard being paid to the functions of each service,
- (4) a classification of hospitals according to the general functions each is called upon to perform
- (5) an order of priority for the work of hospital construction and modernization

The terms of reference of the subcommittee are thus considerably enlarged and its activities extended to the study of problems the conclusion of which would make it possible to deal on rational bases with the optimize health equipment of each region

WHO will continue to assist national administrations in setting up or reorganizing health and vital statistics services and will also lend assistance to the national committees on health statistics whose creation was endorsed by the First Health Assembly upon recommendation of the International Conference for the Sixth Decennial Revision of the International Lists of Diseases and Causes of Death 38 New committees may be established in certain countries where such activities have been previously unknown and a unit in the WHO Secretariat will act as liaison agent.

^{*} B Il World Hith Org Suppl 1 1948 1949 Ch on 11 o ld Hith Org 1948 2, 114

dental cares was a nutritional problem and might best be incorporated into the nutrition programme. However the delegate from the USA thought that dental hypene should definitely not be considered as part of this programme insamuch as many other aspects of the problem would have to be investigated in seeking the causes of dental cares.

have to be investigated in seeking the causes of dental caries. The Assembly endorsed a programme on immunization against com municable diseases of childhood and decided to call a conference in 1951 of heads of laboratories and institutes producing vaccine against diphtheria and against whooming could be a supported to the conference of the confere

The question of whether or not WHO should act to some extent as a relief organization and send supplies for government health programmes was amply debated at the Second Health Assembly

This is one of the was amply debated at the Second Health Assembly Into is on on the subjects on which opinion has always been divided. The necessity for sending medical equipment to some countries has been universally recognized but many delegations have questioned whether such an activity is really within the province of WHO. Furthermore, the limited budget of the Organization makes impossible any substantial and of this sort. Adoption of a definitive policy is, at the present time impracticable, the only course seems to be to points of the institution in the true to e, the only con-try to satisfy only the most urgent needs for supplies. The Assembly requested the Executive Board to discuss the question of freer and more rapid flow of supplies to governments, including the possibility of setting up a revolving fund on which governments might be able to draw and to

which they would make repayment in their own currences

The problem of insecticides and supplying them to governments particularly held the attention of the Assembly Member States were urged to ensure the freer flow of insecticides and their ingredients to countries where ensure the freer flow of insecticides and their ingredients to countries where they are needed and where their domestic production is either non-custent or insufficient. The Assembly insited governments to call on WHO for information and advice concerning those phases of insecticide production which they might undertake domestically. Also important in relation to insecticides is the labelling of such products, and attention was called to the recommendation of the Expert Committee on Insecticides that manufacturers be required to label insecticides properly, listing the active ingredients and the amount of each present.

Efforts are now being mide by several organs of the United Nations to encourage a free exchange of needed commodities among countries with pirticular emphasis on the abandonment of economic barriers. The Assembly requested the Director General to drive the attention of the Economic and Social Council at its next session to the proposal that economic and social Council at its next session to the proposition countries ficilitate as much as possible the free flow into the countries where they are needed of essential diagnostic therapeutic prophylacit teaching and research equipment and supplies and raw materials and machinery for their production by measures which they deem appropriate with search to tearth and important of the proposition of the p

machinery for their production by measures which they deem appropriate with regard to traffs and import and export restrictions.

Another matter to which the Assembly give consideration was that of dental health. On the proposal of the USA delegation supported by delegates of Finland and France the Health Assembly requested the Director General to study the problem of dental health with a view to Director General of study the problem of dental nealth with a view of presenting a programme on this subject to the Fourth Assembly. The collaboration of all research institutes concerned with this problem was requested. In the course of the discussion, the opinion was expressed that

¹ Ch ort Horld Hith O x 1949 3 18

Biographical Note

RAJKUMARI AMRIT KAUR

President of the Third World Health Assembly

Raykumari Amrit Kaur President of the Third World Health Assembly was born in Lucknow India on 2 February 1889. She is a member of the ruling house of Kapurthala a Sikh state in the Punjab. She studied in England and France and holds the degree of Doctor of Literature from Delhi University.

The Rajkumars s life has been devoted to social welfare work. In her student days she began to be interested in welfare activities and nursing and later worked in hospitals and dispensaires throughout her country. She became active in Indian women's organizations the All India Women's Conference (AIWC) in particular. She gave evidence on behalf of this organization before Lord Lothian's I ranchise Committee in 1932 and on behalf of all three of India's main women's organizations before the Joint Select Committee in Chodon in 1933. She was president of the AIWC in 1938 and chairman of the AIW Fund Association during two periods 1937 1941 and 1946 until the present time. She has published two books on the role of women in India. To Women and Challenge to Women.

She was secretary to Mahatma Gandhi for sixteen years and has been appointed one of the trustees of the Gandhi Memorial Fund

As first woman member of the Advisory Board of Education (Government of India) the Raykumari served from the time of its inception until August 1942 she was reappointed in 1946. She was appointed Minister for Health in the first Dominion Cabinet in 1947. In this capacity she has been instrumental in establishing the first nursing council in India and has sponsored legislation raising the wage level of nurses. She is chairman of the Indian Lertoxy Association and of the Indian Red Cross Society

Rajkumari Amrit kaur has also been active in international organizations. She was one of India s delegates to annual UNESCO conferences in 1945 in London and in 1946 in Paris. She led India s delegation to the First and Second World Health Assemblies.



FIG 18. Rat a Kaur, Pres dem Third Heath signing the submenorating the submenorating the Pelois des helt hand per President of the Confederation Mr. Trygve Lie General of the cut

FIG. 1. At the custmany for laying the consistone of the new inp of the Palas des Nidors Lett for ignt. Mr. W. Moderow Director European Office of the Unified Nations Dr. Brock Chisholm Director General of WHO. Rayumat Amitt have President of the Third Health Assembly Mr Tryove Lie Secretary General of the Unified Nisions.







regard themselves as Members of WHO
This is close to 10 / of the Members
of the Organization What makes this
unpustifiable and inexplicable withdrawal
the more hurful to the interests of inter
national health is that the countries in
question constitute a group of nations
which we for several reasons need badly
in the World Health Organization We
would like again to stress that the doors
are open for them to join up agree or open for them to join up agree

Secondly the Second World Health Assembly last summer voted a budget completely inadequate to meet the health needs of the world and also the programme drawn up by the Executive Board and the Secretariat The budget which was passed threatened to reduce WHO to an administrative planning and collecting organization only leaving very little funds and strength for the blood and life of the Organization-the practical work in the field through its central and first and foremost through its regional offices Only a precariously narrow margin of money now separates us from being a body which would be able to fulfil mainly its statutory routine functions Extremely important as these are they would to my mind not be sufficient in the eyes of

continued life and expansion of WHO
Thirdly the so-called Point 4 pro
gramme of technical assistance for the
conomic development of underdeveloped
countries has not yet materialized We
have as you know put great faith in this
broad minded and generous idea and so
have a great number of countries all over
the world

the world to justify in the long run the

The vast majority of the peopl s of the world still fit no mondage, to disease and misery Science knows the means to rapid improvement and we know how to administer the proper health measures we are not dearners but practical men Neverthelass a majority of the Member Warton the measures which was not to the measures with the measures which was not to the measure of the Member o

The Hon Raikumari Amrit Kaur India

The technical competence of the World Health Organization to deal with maternal and child health problems as with similar problems in respect of the remaining sections of the community must receive due recognition. It must be remembered that a campaign for dealing with the health hazard of mothers and children cannot in many cases be isolated from similar work for the remaining members of a community. For instance a venereal diseases campaign for mothers and children will be bereft of much of its value if fathers and other members of the family are not also dealt with at the same tıme Similarly antimalaria measures directed against mosquitos or against their larvas, will benefit the whole popula tion A rigid isolation of effort between the two groups (mothers and children on the one hand and the rest of the com munity on the other) seems therefore

neither practicable nor desirable Taking a long term view of the situation I imagine that it would be well worth considering whether a substantial portion of UNICEF funds which are earmarked specifically for the purpose of serving health needs of mothers and children should not in close co-operation with and with the technical guidance of the World Health Organization be spent on providing basic health services for children and mothers such as the provision of health centres and hospitals for infants and older children of school health services of institutional and domiciliary midwifery and above all of facilities for health education in the homes of the people On a foundation of such provision can be engrafted the specializ d services of the World Health Organization such as those dealing with venereal diseases tuberculosis leprosy etc and the spe cialized agencies should even in the interests of children and mothers extend their scope of activity to the remaining sections of the population

Dr P Gregoric Yugoslavia

I would like to point out that the World Health Organization has in the course

Points from Speeches

Mr Trygge I ie, Secretary General, United Nations

The supreme chillens of the second half of the twentieth century—and expecially of the next twenty years—is not expressed in the ideological and power conflict that monopolize the headlines tody. The supreme chillenge is presented by that great majority of the population of the world—over sixteen hundred million—whose poverty huncer and inscentily must be substantially remedied if they are not to result in new and dissistance spheavals.

Most of these people live in the so-called underdeveloped areas of the world munly in Asia and Africa. They are moving rapidly toward political equality. They will no longer accept the prinding poverty that has been their fate for centurie.

We cannot meet this chillenge success fully it the snul's piec of toding. We cannot meet it by hilling mensures. We cannot postpone it until 2 more convenient time. The challenge is here and now.

There is only one possible way of achieving so great an objective in so short a time. That is to use to their full-kit capacity the universal machinery resources and experience of the specialized agencies and the United Nations. We are not doing that today.

Our expanded programme of technical assistance for economic development is a step in the right direction. But the allocation by the Member Governments of a five greater proportion than at present of their available resources in brain power and money power will be necessary.

Dr K I yang Norway

Public health once a stepchild among the medical specialties has in the last decades gained a unique and very strong position indeed. More than anything else perhaps the experience samed during the second World War contributed towards opening the eyes of the world to the tremendous possibilities involved in modern public health activities—meaning in this connection properly organized preventive curative and rehabilitative medicine.

If half or one third or even one-tenth of the present scientific knowledge of medicine had been spelt out in terms of public health administrations hospital sick insurance schemes doctors rurses and auxiliary personnel in a proper production and distribution of drugs and insecticides imedical literature and equinment the picture of the whole world would have been very different indeed from that which meets the eye today. Not only the expectancy of life would have charged not only the possibility for millions and millions to enjoy life and happiness but also the productive capacity of vast areas would have been changed and the standard of heing would have been greatly improved We must not forget speaking in strutly economic terms that ours is a world of rich countries middle-class countries and poor countries Many of the clouds that darken the international sky today have been basically produced by the frictions and tensions which must arise as long as standards of living are as different as we find them in the world Countries with hundreds of millions of population are still as fir as protection of life and health is concerned ligging a hundred years or more behind. Here is indeed furtile bround for co-ordinated international action if such action had its free run

in 1946 the perspectives for a broad scale international health programme were very bright and still in 1948 the outlook was good. There is no ressor to hide the fact that in the last year Willo has suffered several setbacks. First not kess thap are Minder countries have so far announced that they do not any longer Consequently it is uneconomical to use it when a piece of work can be done equally well nationally and the resources are available nationally

The provision of the necessary medical resources is often a purely economic question and not a medical one so that while admitting the need for urgent help in emergency in the long run more will be achieved by helping in the economic re-establishment of a country than can ever be achieved by doling out material We know the truth of this in our own countries Immediately full employment and a reasonable economic level are reached the health of the people improves accordingly. We are ant to forget that the health problems of the world in very many cases have an economic basis and in our attempts to utilize our resources for maxi mum results we should constantly bear this in mind

The Hon S W R D Bandaranaike Ceylon

We must never permit ourselves to lose sight of the essentially international and world character of this Organization. We must never allow purely individual and national points of view to obscure our realization of this fundamental fact. If therefore deprecate any attempt to amend the Constitution or to take any other steps calculated unduly to stress the national or the steps of the native of the property of the native of the nati

It is most regrettable, that the withdrawal of certain Members has reduced the world character of WHO I think it will be admitted that we have done our best to persuad these Members to continue in our family of nations. We still hope that they may change their minds and rejoin us.

Dr k C k E. Raja India

comphasized.

The question of medical supplies has been discussed on more than one occasion

by the Assembly and by the Executive Board While it is recognized that WHO cannot make itself responsible for buying and selling medical supplies to govern ments on a large scale, the need for assist ance to enable governments to secure adequate amounts of essential drugs and insecticides is so great that I fel that the question of extending help in this direction should continue to receive serious con sideration DDT p nicillin and other drugs have greatly extended the no sibility of preventive care and remudial measures being made available to the people. On the other hand exchange difficulties and the effect of devaluation of currencies have made it extremely hard for governments to secure adequate amounts of such essential medical supplies. It is therefore urged that the question of active help from WHO to governments which are finding it difficult to secure such supplies should continue to be explored Governments should of course nay for these supplies. If such essential articles can be made available at reasonable cost and in adequate quan tities the promotion of measures by gov ernments to safeguard the health of their peoples will be greatly facilitated

Dr J N Togba Liberia

In view of the fact that there is as yet no regional bureau in sight for Africa Liberia would appreciate ery highly assistance from the World Health Organi zation in environmental sanitation road construction malaria control eradication or control of yaws among children and fellowships for undergraduates

It is regrettable to state here that we have no adequate water supply nor sewage sipsoial as a result of which there are diarrhoeas and intestinal parasites in abundance in spite of the fact that free chinics and treatment are given by the Government.

Liberia being located in the tropics experiences heavy rainfalls with a yearly average of 150 to 180 inches. For that reason it is difficult to maintain dirt roads in good condition. Therefore many areas cannot be reached for medical care.

of its two years work greatly assisted my country as well as other countries by enabling it to send abroad large numbers of medical men for further specialization and by placing at its disposal as at the disposal of other countries professional literature which has made it possible to study the latest achievements of science and to promote health services in our respective countries I wish also to point to the help which my country has received through UNICEF especially medical assistance This assistance which included insecticides penicillin and laboratory material and transportation enabled my country to achieve with considerable financial assistance from its own Govern ment most remarkable results in the or ganization of malaria control and antivenereal disease campaigns. In 1949 there were registered in Yugoslavia barely seven thousand malaria cases most of them relapses whereas in recent years as well as before the war we had more than one hundred thousand and even two hundred thousand malaria patients yearly

Dr M Khalil Bey Egypt

Discoveres in the field of sanitation prevention of disease and therapeuties are available, but only a small fraction of the inhabitants of the world are benefiting from them. This is due to lack of funds lack of technical assistance lack of medical personnel or even to ignorance as to the existence of this means of saving life existence of this means of saving life. It is through the World Health Organization that knowledge technical assistance expert advice medicaments and public health equipment can be provided for the undesteloped areas of the world.

The less developed countries of the world ought to be and I believe are very thinkful to the more favoured countries for the help they receive through the different activities of the World Health Organization. This help is not of a material haiture only and expert advice and demonstration projects are perhaps more important. The expectation of life of a child born in the undeveloped areas of the world sometimes does not exceed 37 years. While in some of

the advanced countries it is about 70 years.

The World Health Organization intends to better the chances for a longer and happer. life for those unfortunate children

The countries represented here may differ in their opinion on the ments of the United Nations as an instrument to ensure pace and prevent war but all of them are of one opinion as to the humanitarian and beneficial work done by the World Health Organization although it is yet in its infancy

Dr Melville Mackenzie United kin,dom

The almost limitless scope of the inter national field in itself creates a dangerthat of attempting to cover too much ground superficially Desire to meet the wishes of an individual Member of the Organization or pressure to obtain results rapidly with the purpose of justifying the Organization in political or lay circles may be contributory to unsatisfactory and shallow work. In all international work political action should be the servant and not the master of health programmes The reverse has too often been the case in the past Propress in the science and appli cation of medicine the good it can bring to all peoples of the world and how much each can benefit from the experience of others should be the only considerations of an international medical organization. In making our decisions during this Assembly we must consider how we can most effi ciently allocate our financial resources relatively very small in relation to the problems so that we use our money to the best possible advantage of humanity as a whole It will indeed be unfortunate if we spend our time suggesting or agreeing to pieces of work which can only reduce the effect of the activities we have already started

In this connection I would again like to stress the importance at any rate at the present time of limiting our activities to work which can only be done through international process of the partial mechanicity or which partial utality lends itself to international procedures. It is an unfortunate but unavoidable fact that international as compared with national machinery is unduly expensive.

future life of the individual A voune mother may be given the most valuable advice and nevertheless he torn between understanding on one side and strong habits and prejudices acquired in the nast Needless to stress how much more this is true with regard to mental health follows therefore that there is need for preparation for parenthood taking advan tage of all our knowledge and that this preparation must start as early as possible in the childhood of the future mother father teacher or citizen in general. It is quite natural that we turn to the school and kindergarten to provide this education not only in conveying knowledge but in duly using all the scientifically proved methods of influence and guidance children would be taught at school not only how to write and read but also how their bodies are built up how to obtain better health and prevent diseases May I be allowed to ask are not matters of mental and physical well being as impor lant as algebra and geography?

Dr H P Froes Beaul

The Brazilian delegation wishes to draw attention to WHIO is increasing activity in the field of international health assist ance which is one of the most important objectives of the Organization. We are rapidly approaching the time when an epidemic of plague yellow feer smallpox or cholera will be a most exceptional

The National Health Department of Brazil follows with particular intere t the activities of the group of experts who are preparing the International Sanitary Regulations and I hope that their magnificent work will constitute a great step forward in world feelth

The establishment of committees for international h alth affairs in the various departments of health seems to us of the greate t importance for the improvement of health policy privated that such committees to ordinate their a tivities with those of the correspon line, committees in the ministries of loreign a Fairs in the various couldrie

Dr L. A. Scheele United States of America

I want to remind you that the United States has been a strong supporter of this Organization. We have believed firmly in the principle that the underdeveloped countries should be assisted by those more privileged I think you had some little evidence of some of the actions of our Congress on this score in this very week We subscribe fully to the principle that we should openly discuss the problems that come before us with nations and pcopleand nations consist of people consists of nations and its people present and debate their views in open forum Those views may be divergent but we have the onen forum of dis'u sion and we reed not be vindictive about attitudes finally vote on our resolutions and I am sure we all-I know the United States does -willingly accept the decisions that we reach

It is a shame to say that a country with approximately two and a half million people has 30 doctors of whom only one is a citizen of the country

Dr A H Taba, Iran

A group of villagers all of whom are physically below par and with a large proportion intermittently ill and unable to work will not show the energy and ambition necessry to better their lot In some meas of Iran the rivages of malaria and other diseases are so serious that whole villages can be found with hardly a really healthy child under two years of yee. You can see whole estates in rich valleys where the crops cannot be har vested before much of them are wasted and lost because the able bodued villaeers suffer from malarial fevers at harvest time.

By vast future health projects even the most distant furmers can be protected from many diseases which sap their strength and working capacity

I must emphatically stress the fact that malarna nithough our most scrious scourge is not the only scrious problem with which we tre faced. Tuberculous venerual diseases and minim mortulay are amongst the other most urgent problems of our nation necding immediate attention. We have been visited by WHO consultinus in tuberculouss and nursing and we are confident enough that their report on conditions in Iran will attract the uttention of the responsible authorities of WHO to the vital importance of future and in these matters.

Professor J Parisot France

This national scliftures excluding as it does any spirit of real co-pertition is one of the most serious obstacles to international action it is as harmful to the United Nations as the selfishness of one member can be to a family or the selfish ness of one class to a whole secrety

It is likewise essential that every country should be prepared to give the Organization the benefit of its culture its own special scientific or technical knowledge its in n its institutions and its production In this way it will in turn be called upon to give and to receive through the first mediary of the Organization. Socress depends ultimately on the way in what each of us understands his part in the common task and gives proof of his districted depends. We must not bring to Willo our contribution in men or in material in order to enhance our national prestice or strengthen our economy, we must not seek, its aid to evade our o'n responsibilities we must never lose sight of the fatthat we are here to serve only the in creas of the suternational community.

Dr J Oren Israel

Ignorance is certainly one of markeds worst enemies Ignorance in mitter of physical and mental health is certainly together with socril factors and limitances of medical science and practice responsible for the fact that human beings are still so far from the state of complete physical mental and social well being."

No matter how successful national gw ernments may be in their efforts to improve health much will still depend on the individual on his knowledge and his under standing. The public may or may not ava! itself of our knowledge in physical and mental hygiene. It may or may not support the endeavours of its health authority This is why our Constitution names as one of the functions of the Organization "t) assist in developing an informed public opinion among all peoples on matters of True that health education pregrammes must be adjusted to the specific needs and conditions of eith nation Nevertheless there are certain facts which are of importance throughout the world First I have in mind the fact that even today almost everywhere parenthood is perhaps the only job of I may say so which is supposed not to require any training of knowledge such as is required in any other profession Another fact is that health education especially mental health educa tion loses much of its value and effect unless started in very early childhood. In this period of life habits and attitudes towards problems of life are shaped which bear decisive importance in the

Brazil

Delegates

Dr H P Frées Director General National Department of Health (Chief Delegate) Dr G H de Paula Souza Director and Professor Faculty of Hygiene and Public Health University of São Paulo

Advisers

Mr O de Souza Bandeira Member of the Permanent Delegation to the European Office of the United Nations Geneva

Mr H Gomes Member of the Permanent Delegation to the European Office of the United Nations Geneva

Burma

Delegates

Mrs Daw Khin Kyi Director of Women and Children's Welfare Services (Chief Delegate)

Dr Tha Mya Director of Health and Medical Services

Cambodia

Delegates

SE Neal Phleng Ministre de la Santé publique (Chief Delegate) Dr You Chhin Medecin de l'Assistance

Canada

Delegate

Dr J J McCann Minister of National Revenue

Alternates

Dr H A Ansley Director of Health Services Department of National Health

and Welfare

Dr L A Miller Deputy Minister of Health Newfoundland Mr E A Côte First Secretary Canada House London

Adviser

Mr N F H Berlis Member of the Permanent Delegation to the European Office of the United Nations Geneva

Ceylon

Delegates

The Hon S W R D Bandaranaike Minister of Health and Local Government (Chief Delegate)

Dr C T Williams Assistant Director of Sanitary Services

Dr W A Karunaratne Medical Officer of Health

Chile

Delevate

Dr M Charnes Zone Medical Inspector Public Health Service

Adviser

Mr R Rodríguez Consul in Geneva

Costa Rica Delegate

Dr O Vargas Méndez Director-General of Health

DELEGATES AND OTHER PARTICIPANTS IN THE THIRD HEALTH ASSEMBLY

DULI GATIONS OF MEMBER STATES

Australia

Delegates

- Dr D A Dowling Chief Medical Officer Australia House London (Chief Delegate)
 - Mr B C Ballard Permanent Delegate to the European Office of the Uni it Nations Geneva
- Mr J F Hill First Secretary Australian External Affairs Office London

Adviser

Mr D Jamieson Third Secretary Australian External Affairs Office London

Austria

Delegates

- Dr A khaum Director General of Public Health Ministry of Social Affairs (Chief Delegate)
- Mr. K. Strobl. Chief. Legal. Section. Directorate General of Public Health. Ministry of Social Affairs.

Belgium

Delegates

- Professeur M De Lact Secrétaire général du Ministère de la Sante publique et de la Famille (Cluef Delegate)
- Dr A N Duren Inspecteur général de l'Hygiène Ministère des Colonies (Deputi Chief Delegate)
- M L A D Gernerts Directeur au Ministère des Affaires etrangères et da Commerce exterieur

Alternates

- Dr J Goosens Directeur général adjoint au Secrétaire général au Ministère de la Santé publique et de la Famille
- Dr P J J van de Calseyde Directeur général de l'Hygiène Ministère de la Sante publique et de la Famille.
- Professeur A H J Rodhain Conseiller au Ministère des Colonies Directeur honoraire de l'Institut de Médecine tropicale Antwerp
- M R Appeimans Professeur à l'Université catholique de Louvain

Austre

- Baron F de Kerchove d'Exacrde Chef de la Délécation permanente auprès de l'Office Européen des Nations Unies Genera
- M F Blondeel Chef adjoint de la Délégation permanente auprès de l'Opice Européen des Nations Unies Geneva

Bolosia

Delegate

Dr F Ferrière Honorary Consul in Geneva

France (contd)

Advisers (contd)

Médecin-Genéral Inspecteur M A Vaucel Directeur du Service de Sante Minis tère de la France d'Outre Mer

Dr P M Dorolle Conseiller adjoint pour la Sante Haut Commissariat de France à Saïgon

M J Foessel Administrateur au Ministère des Finances et des Affaires écono miques

Mme C Labeyrie Ministère des Affaires etrangeres

M B Toussaint Chef de la Dilégation permanente auprès de l'Office Européen des Nations Umes Geneva

Mile A Lissac Chef adjoint de la Délegation permanente auprès de l'Office Européen des Nations Unies Geneva

Creece

....

Delegate
Professor G loakimoglou Professor of Pharmacology Faculty of Medicine
University of Athens

Haitı

Delegates

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Views on WHO

Third World Health Assembly

The following editorials have recently appeared in the medical press on the occa sion of the Third World Health Assembly

The first two annual Assemblies of the World Health Organization were held in an atmosphere of optimism Those who attended the committee meetings were obviously keen and afert. The spirit of co-operation was in the air and there was a general sense of great expectation. At the Third General Assembly of WHO which concluded on May 27 it was not difficult to detect a sense of disappoint ment and frustration. This may in part have been because those who put in so much hard work in the Interim Commis sion and subsequently had hoped to see more done and that more quickly But as the conspectus of WHO s activities given in the Buish Medeal Journal of May 6 showed WHO has already schieved much and holds out great promise

the future of the future will allow its

Freoccupation with the budger no joint in part accounted for the eagerness ith which members followed the discussion on on the fate of Unner (United Nations international Children's Emergency Fund) which was see up at the close of the war as nead the organization for bringing quickly d to children in distress. It was not need that this should be a permanent

ablishment and because of this and cause also of the strong emotional 1 of the object of the Fund its offers were soon filled and refilled with rd currency. There is now a proposal 1 United should be put to n a permanent

oting as one of the specialist agencies of United Nations. The easiing salized agencies have met and discussed and have formulated objections to the Poposal United is doing more and more with in the medical field often in collaison with WHO On the fare of it

it would seem highly undesirable that there should be two international health orea nizations with overlapping activities. What surely is needed is a unification of the work WHO needs money to carry out its essential tasks and these must of necessity relate as much to the needs of children as to the mothers and fathers of such children. It may call for some elf sacrefice on the part of those engaged on the tasks of Unicef to merge some of its work into that of WHO but such a move would be in the best interests of those whom both organizations exist to Apart from anything else the multiplication of specialized agencies is surely to be duplored until the existing agencies have at least got more firmly on their feet

Although it would save money it is much to be hoped that the proposal to hold the General Assembly every two years will not be put into effect. It is true that the holding of an Assembly each year puts a strain on the secretariat makes heavy demands on the time of the delegates and costs money nevertheless if the Assembly does not meet each year it will fail to have a firm grasp on policy and too much power will be put into the hands of the Executive Board It is true that much of the business of the Assembly is of a routine nature hur as in all such international gatherines those informal contacts made outside the committee rooms and Assembly chamber are of incalculable value in comenting friendships and in promoting the free flow of ideas and information

Two main trends in the work of WHO derive from the Health Organization of the League of Nations and from Unita. The League concentrated on strings as establishings standards and providing technical information. Unitalistic properties with the standards with th

extravagant but at least imaginative. Yet there is little point in sending an expert term on malaria to demonstrate modern methods of control prevention treatment if in that area there are not enough doctors nurses and sanitary inspectors to carry on the work when the team has left and there is too some risk in picking out this or that disease for frontal attack because in this way the total health needs of a certain community may be lost sight of As Princess Amrit Kaur observed in her Presidential Address to the Assembly More than half the people of the world live in areas where modern health services with reasonable standards of efficiency are non-existent and the work of the World Health Orea nization will make its impress on the world health problem only by promoting through all possible means the provision of adequate health protection to these peoples

" Vast areas of the world are in desperate need of the services of the sanitary engineer This is an unromantic conception but as the history of our own country shows the public health movement could make no headway until we provided a clean water supply and instituted efficient methods of disposing of sewage. These more prosaic things it would seem must come first and even then WHO can do little for the health of people unless they are well fed and well housed and can earn an adequate living If the United Nations can yet be come what its name implies, then through itself and its specialized agencies these goals should not be unattainable. In the meanwhile WHO is doing work that should appeal to doctors and enlist their interest and support " (British Medical Journal 1950 1 1354)

"The World Health Organisation whose third annual assembly has just been held at Geneva has made an impressive start One of the difficulties facing such a body is that in creating an international staff it must avoid taking too many from one country and must ensure the adequate representation of less highly developed countries. The need for members of the staff to adjust to the international atmo-

sphere and to uproot themselves from their familiar patterns of life has encendered stresses in the young organisation. Never theless an observer will be impressed by the spirit of enthusiasm of the staff by the rapidity of expansion of the work and by the evidence on all sides of friendliness and good human relations The same friendliness and tolerance was to be seen among the delegates to the assembly and if at times enthusiasm became damped this might be ascribed to the enormous complication of the agenda and the long hours of work on detail. The assembly was faced with a number of unsolved political administrative and clinical problems. The communication of ideas and meaning is never easy in committee but the obstacles are much increased when a large propor tion of the delegates have imperfect command of either of the languages in use Many misunderstandings and unduly long discussions would not have occurred had all delegates been perfectly at home in either English or French

An excessive itemisation of the programme Jacking in qualitative discrimina tion led during the discussion of concrete subjects such as communicable diseases to a kind of arms race among the coun tries particularly concerned who wanted to raise expenditure regardless of the budgetary limitations of the whole programme Some delegates succumbed to the temptation to display special know ledge and committees patiently endured many uninvited lectures At times the programme committee lost in discussion about individual diseases lost sight of even health itself, at other times broad programmes of medicosocial amelioration received their justification in the somewhat unworthy terms of anticipated increase in industrial production and the like. These programme difficulties can be overcome by improved preparation and greater ex perience of delegates, but this is a national matter on which W HO can exert only a limited influence It may be hoped however that time and growing experience will provide the solution to these incidental problems and thus leave the organisation free to tackle its proper job. Its approach to its task is far seeing and broadly con

tened and its work is energetic and en thosastic There is ample good will both among staff and delegations the orga nisation is itself conducive to international harmony which is more than can be said of all international agencies and there is 2 growing realisation that the promotion of health is a world wide concern. The absence for political reasons of certain nations is sincerely regretted and recog nised as a source of weakness to WHO but the opportunities for work which remain are almost unlimited and there is always the possibility that political in fluence in the sphere of health may abate and make cooperation possible in the future

Recently medical readers have had the advantage of seeing a comprehensive review of W HO s work published by the flutus Medical Journal in an international health number on May 6 Generally however this work receives hitle publicity and the ordinary citizens of most countres know hitle or nothing about it. The reason is that the solid schierements of positive health work.

rarely make news and that the only activities of the organisation which are sure of commanding headlines in the news papers are the repercussions of some political misfortune. Unhappily this state of ignorance breeds anathy and enables the more chauvinistic elements of the press to attack W HO on the ground that good money is being poured down an international drain with no hope of ade quate return. In fact however, the total expenditure of WHO for the year 1951 is limited to 6 300 000 United States dollars (about £2 million) Nobody would hold that the existence of an international organisation absolves member nations from their responsibility for the health of their own citizens and the bulk of expenditure on health must be a national matter the progress of civilisa Nevertheless tion depends on the willingness and ability of more highly developed countries to bring aid to backward communities All who can see beyond the boundaries of their own countries will be anxious to see it (WHO) given a better chance to rise to the occasion" (The Lancet 1950 1 1041)

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13	Expert Committee on Venereal Infections report on the third session	1/6 50 20
14	Expert Committee on Venereal Infections report of the Subcommittee on Serology and Laboratory Aspects	2/ \$0 25
15	Venereal-disease control in the USA report of the WHO Syphilis Study Commission	3/6 \$0 45
16	Joint FAO/WHO Expert Committee on Nutrition report on the first session	1/3 50 15
17	Joint OlHP/WHO Study Group on Bilharziasis in Africa report on the first session	9d S0 10
18	Joint OIHP/WHO Study Group on Cholera report on the third session)
19	Yellow Fever Panel report on the first session	To be published
20	Joint ILO/WHO Committee on the Hygiene of Scafarers report on the first session	}
21	Expert Committee on Drugs Liable to Produce Addiction report on the second session	9d < 010

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CHRONICLE THE WORLD HEALTH ORGANIZATION

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Special issue of the British Medical Journal on WHO

RECENT AND FORTHCOMING MEETINGS

Joint Committee on Health Policy UNICEF/WHO fourth session

WHO Expert Committee on School Health Services first session

Joint ILO/WHO Committee on Occupational Hybiene first session

WHO Regional Committee for the Eastern Mediterranean third

WHO Expert Committee on Public Health Administration first ses

Third World Health Assembly Geneva

WHO Executive Board sixth session. Geneva.

8 27 May

30-31 May

1 10 June

7 12 August

28 August

2 September

4 7 September

December

Geneva

Geneva

Geneva

session Istanbul

sion Geneva

8 9 September	WHO Regional Conference on Statistics Istanbul
11 16 September	WHO Expert Committee on Mental Health second session Paris
11 16 September	WHO Expert Commuttee on Tuberculosis fifth session Geneva
22 26 September	WHO Regional Committee for South East Asia third session kandy Ceylon
23 September 2 October	WHO Expert Committee on Venereal Infections Subcommittee on Serology and Laboratory Aspects second session Paris
25 30 September	WHO Regional Committee for the Americas second session. Pan American Sanitary Organization Directing Council fourth meeting Cuidad Trujillo
4 11 October	WHO Expert Committee on Insecticides second session Geneva
9 18 October	WHO Expert Committee on International Epidemiology and Quarantine third session. Geneva.
30 October 4 November	WHO Expert Committee on the Unification of Pharmacopoetas seventh session Geneva
6-11 November	WHO Expert Advisory Panel on Brucellosis Washington
27 November 9 December	WHO Malaria Conference in Equatorial Africa Kampala Uganda

11 16 December WHO Expert Committee on Malaria fourth session. Lampala. Uganda

SIATH SESSION OF THE EXECUTIVE BOARD

The Executive Board held its sixth session in Geneva from 1 to 9 June 1950 i.e. a few days after the close of the Third World Health Assembly \(^1\) Dr H S Gear was elected Chairman and Professeur M Di Laet and Lt Col M Jafar Vice Chairmen

As a result of decisions taken by the Assembly the Board had several important tasks to perform. Its attention was primarily directed towards problems of a financial nature particularly with regard to the 1951 budget Other questions also discussed were decentralization of the Organization arrangements concerning the rules of procedure and the programme of the Health Assembly relations with non-governmental organizations reports of expert committees supplies for governmental programmes the technical assistance programme and publications.

In the course of its work the Board made use of the reports of the Slanding Committee on Administration and Finance whose aid was found so useful during the fifth session of the Board and of the Committee on Non Governmental Organizations. Three working parties were appointed to study questions of procedure supplies for governmental programmes and the problems involved in the choice of a different seaf for each Assembly

The Executive Board decided to open its seventh session on 22 January 1951 at the Palais des Nations Geneva. This session will be preceded by a meeting of the Standing Committee on Administration and Finance which will take place on 7 January.

Budgetary Problems

The Third World Health Assembly adopted a budget of \$7 300 000 to 1951 in accordance with the estimates submitted by the Director eneral and requested the Executive Board to establish the level of penditure

Taking into consideration that amount of the estimated income for 51 which was reasonably expected to become available during that at the Board decided that the expenditure level for 1951 should not sed \$5 150 000. As some of the Member States including those which to decided to withdraw from WHO had not made their subscriptions ulable the programme of WHO had to be re-examined in the light the principles laid down by the Third Health Assembly and had to be usted to the financial resources of the Organization. During the discussion of stress was laid on the necessity of not decreasing the allocations for

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fellowships, technical services and field operations of giving priority to pestilential diseases, and of maintaining certain expert committees. A saving should be realized by reducing the total number of staff apart from persons professionally qualified in public health.

To promote the international work of WHO it was suggested that funds might be collected, either by issuing special postage stamps or

world health labels or by the sale of fings on World Health Dry The establishment of a World Health Defence Fund would make it possible to mobilize considerable resources in favour of health. The most suitable methods of raising funds will need to be studied and a programme drawn up for putting them into operation. It will be the responsibility of the Fourth World Health Assembly to take final decisions on this subject

Decentralization of the Organization

Relations with Pan American Sanitary Bureau

WHO experts are collaborating in the work of the Pan American Sanitary Bureau which now serves as the Regional Office of WHO for the Americas, and various joint projects—a campaign against tuberculosis in El Salvador insect control in Central America, and control of pertussis and diphtheria in Chile and Colombia—are at present under consideration Certain problems of an administrative nature still remain to be settled with the Pan American Sanitary Bureau but the spirit of close co operation which at present prevails august well for the future

Other problems concerning regional organization

The organization of a regional office for Europe has met with certain difficulties. Six Member States in the region have so far not replied to the request sent them in connexion with the establishment of a regional organization seven have expressed reservations and six have sent negative replies. Only eight countries stated that they were in agreement. In the opinion of the Board, this question cannot be indefinitely deferred, a decision should be taken during the seventh session. In the meantime, the financial implications of the establishment of this office must be studied.

The Standing Committee on Administration and Finance studied the problem of regional organization giving special consideration to the progress made in decentralization the organizational structure and the effectiveness of regional offices. The regional directors were able to explain the position of their respective offices with regard to these various aspects. The problems which arise are not the same for every regional organization however certain fundamental principles should guide the activities of the regional offices.

studied programmes should be drawn up indicating the relative importance of each project, the implementation of the projects when the international reputation who should a form in the region long enough to familiarize themselves with local condition. The improvement of public health services still remains one of the practique aims.

World Health Assembly

Date and seat of future Assemblies

The Fourth Health Assembly will open at the Palat des Nations Geneva on 7 May 1951. It will be preceded by a meeting of a special commission composed of Member States charged with the task of examining the draft International Sanitary Regulations prepared by the Expert Committee on International Epidemiology and Quarantine. The need for adopting this draft is becoming urgent in view of the increasing difficulties caused in international relations by the absence of international anatural sanitary regulations adapted to present requirements. The commission will have to meet a few weeks before the opening of the Fourth Health Assembly so that the draft regulations can be diopted by the Assembly

Dr Hyde who was con vinced of the importance of holding meetings of the Assembly away from the headquarters of the Organ ization-partly because of the advantages to local health administrations and partly because of the possi bility of thus making the objectives of WHO more widely known-specially stressed the desirability of arefully considering this uestion It stands to rea on that the Organization vould encounter financial ind administrative difficul Since it would be ery costly to service the ssembly by transporting taff from headquarters

34

it would be necessary to recruit a large number of persons locally. This question was referred to a working party presided over by Professeur Parisot

As regards the Fifth World Health Assembly, it was decided that consideration should be given to accepting an invitation to meet in Boston Mass, USA Negotiations should be undertaken now with the responsible authorities to determine what financial or other aid could be given the Organization. In future the question of the site should be studied two years in advance and all the necessary, negotiations should be started in good time so that the Assembly can take the appropriate decisions.

Arrangements for the Fourth Health Assembly

Decisions regarding the Fourth Health Assembly would normally be taken during the seventh session of the Executive Board However this question was considered so important that it was discussed at considerable length during the sixth session

During the discussions of the Assembly, the attention of the delegates is directed to many problems which cannot be definitely settled in such a short period of time. The organization of the work of the Assembly should therefore be modified. Discussions of a technical nature should be concentrated on a small number of subjects which could thus be studied more thoroughly.

It was proposed that the training of medical and public health personnel and the economic importance of preventive medicine might be subjects of special discussion during the next Assembly. This proposal which was adopted by the Executive Board will be communicated to the Member States.

Amendments to the Rules of Procedure of the Assembly

Under the chairmanship of Mr T Lindsay (alternate to Dr Mackenzie) a working party studied questions of procedure to be submitted for approval to the Fourth Health Assembly These questions include a draft amendment to the Rules of Procedure of the Assembly

The proposed changes in the Rules of Procedure are concurred in particular with the representation of the Executive Board at the Assembly either by its Chairman or by persons designated by him. It is suggested that such persons might participate without vote in the discussions in plenary meetings and in the meetings of the main committees of the Assembly if invited to do so by the President of the Assembly or by the Chairman of the main committee concerned.

An important suggestion was put forward with regard to the replacement of a person, designated by a Member State to serve on the Executive Board who fails to attend at three consecutive sessions of the Board

In this case the Member State should be considered as having forfuted its right to designate a person to sit on the Board. The Health As embly at a regular session would then elect another Member State to appoint a person for the remainder of the period during which the representative designated by the Member State which had forfeited its right would have been entitled to serve

Relations with Non Governmental Organizations

The Standing Committee on Non Governmental Organizations which met under the chairmanship of Dr de Paula Souza submitted properties to the Board with a view to extending co operation between non sovern mental organizations and WHO In general organizations admitted to official relationship with WHO should be those which might promote the application of the principles of the Constitution of WHO and which consist of international federations of affiliated national organizations Relations with purely national non-governmental organizations should take the form of merely unofficial working relations

During the biennial revision of the list of organizations already granted official relations with WHO the Board decided to maintain such re-utions

with the eighteen following organizations

Biometric Society

Council for the Co ordination of International Congresses of Medical Sciences

Inter American Association of Sanitary Engineering International Academy of Forensic and Social Medicine

International Association for the Presention of Blindness

International Committee of the Red Cross International Council of Nurses

International Dental Federation

International Hospital Federation

International Leprosy Association

International Union against Cancer

International Union against Tuberculosis

International Union against Venereal Diseases

International Union for Child Welfare

League of Red Cross Societies

World Federation for Mental Health

World Federation of United Nations Associations

World Medical Association

In addition official relations will be established with the International Conference of Social Work It was decided to postpone consideration of the requests of other organizations

Expert Committees

With regard to future meetings of the expert committees in 1951, it will be necessary to keep in mind the budgetary limitations imposed by the fixing of a reduced expenditure level. The Board noted and approved the publication of the reports of the expert committees which met after its fifth session, held in January.

The working party dealing with procedural questions has drawn up draft regulations for the reorganization of the services of experts, this draft will be submitted to the Fourth World Health Assembly

Expert Committee on Antibiotics

The Executive Board approved the publication of the report of this committee, and Ind stress on the recommendation made by the Joint Committee on Health Policy, UNICEF/WHO, in connexion with the development and modernization of plants for the preparation of various antibiotics. It also recommended the continuation of research on antibiotics and the training of experts making use of the facilities which the United Nations International Children's Emergency Fund (UNICEF) and other institutions might be able to offer

Expert Committee on the Unification of Pharmacopoeias

During its sixth session 5 this committee recommended that the author ities responsible for pharmacopoeris in the different countries should inform WHO of new pharmaceutical products which might be described in the International Pharmacopoeta (Pharmacopoeta Internationalis) and for which non proprietary names should be given for national and international use. The choice of name would be left to an expert subcommittee WHO would then communicate the approved name to the Member States and would recommend its adoption for national use.

Expert Committee on Professional and Technical Education of Medical and Auxiliary Personnel

The expert committee during its first session * especially stressed the desirability of making inquiries regarding the medical education in general and the training in hygiene and social medicine in particular, given in various countries. This extremely complex question is of great importance since the necessity of reorganizing medical curricula above all from the point of view of public health is becoming more and more evident

World Hith O g techn Rep Se 1950 26 (to be publi hed) see also Chron H rld Hith O g 1950

^{*} World Hith Og t chn Rep Ser 1950 29 (to be published) a summary of the report will be published in a forthcoming number of the Chronicle

^{*} Ho Id Illih Org. techn. Rep. S. 1950 22 (to be published) see also Ch on World Illih Org. 1950 4 119

Expert Commuttee on Health Statistics

The Board approved the publication of the report on the second ses ion of the Expert Committee on Health Statistics * this report includes annexes containing the reports of the subcommittees on the definition of stillbirth and abortion on the registration of cases of cancer and on hospital statistics.

Regulations applicable to advisory groups and expert committee

The Executive Board drafted amendments to the new regulators applying to advisory panels and expert committees which had been provisionally adopted by the Third Health Assembly. The review of regulation

FIG 2 SIXTH SESSION OF THE EXECUTIVE BOARD



Left to right Lt Col M Jafa and P ofesseur M De Laet Vice Chairmen Dr H S Gea Chai man

stipulate that the number of experts taking part in committee meetings should be reduced the Board considered however that restrictions of this nature would make it difficult to ensure appropriate representation of the various aspects of the problems which the expert committees are asked to study. It considered that this difficulty might be overcome by setting up advisory panels of experts infinitely might be overcome by and commissioned to provide by correspondence and without remuneration information or technical reports on progress in their special subjects. These and other suggested changes in the regulations applying to expert toommittees will be submitted to the Fourth Health Assembly.

World HI h O s ha R p S 1950 25 (to be p bl h d) see 1 Ch on Norld Hi h Cirg 1950

Supplies for Governmental Programmes

Although WHO is not an organization for sending supplies to govern ments it is none the less true as pointed out by Dr Stampar, that sending certain supplies to governments is sometimes indispensable to enable the latter to carry out specific programmes. Clearly, the granting of such supplies should be in response to real needs. A working party, under the chairmanship of Dr F J Brady (alternate to Dr Hyde), was appointed to study the criteria which WHO can employ in answering requests for supplies. In application of the established principles. \$100,000 allocated for this purpose have been distributed. Some countries—Afghanistan Ethiopia, Finland, India the Hashemite Kingdom of Jordan, Monaco, Portugal, Thailand, and Yugoslavia—have thus been granted supplies for the control of malaria and leprosy, for nursing care, etc.

Relations with UNICEF

Agreement has been reached regarding principles governing co operation between UNICEF and WHO in mritters of personnel a question, primarily, of procedures to be followed by the personnel of the two organizations when collaborating in the planning of joint projects and programmes

The Board stressed the importance of the BCG research programme to be undertaken jointly with UNICEF Finally, the report on the fourth session of the Joint Committee on Health Policy, UNICEF/WHO 8 was adopted by the Executive Board

Technical Assistance Programme

The funds allocated for the technical assistance programme will probably be available before the end of 1950. Fifteen requests for assistance have already reached WHO. Sir Arcot Mudahar expressed the view that, in so far as possible permanent striff should be assigned to carry out the programme and that the following problems should be given priority stimulation of campaigns against communicable diseases. professional and technical education fellowships, and public health administration A special committee of the Executive Board will be responsible for advising on all aspects of the technical assistance programme. Operations judged necessary however will have to be approved by the Technical Assistance Board.

Publications

Starting with the first number of Volume 3 the Bulletin of the World Health Organization will be published in a single edition containing articles either in English or in French according to the language in which they

A summary of the report will be published in a forthcoming number of the Ch onl le

have been submitted and giving summaries in the two working languages of the Organization For reasons of economy the International D gest of Health Legislation will no longer be published in fascicle form. The Digest which is published in the two working languages of the Organization vill contain an index arranged according to subject and country

A supplementary Latin index for the Manual of the International Stat's tical Classification of Diseases Injuries and Causes of Death will be pre pared in 1950 for the use of countries which cannot employ the Fren h English or Spanish editions of the Manual

MEMBERSHIP OF THE EXECUTIVE BOARD

The designating country is given in parentheses after each member's name. New members are indicated by an asterisk (*)

- * A. Amy Consul-General of El Salvador in Geneva (El Salvador) (Alt mut to Dr J Allwood Paredes, who was absent)
- * Professor G A Canarena, Chief Medical Officer Office of the High Commissioner for Hygiene and Public Health, Rome (Italy)
- * Dr M Charnes, Zone Medical Inspector Public Health Service Santiago (C'ul) * Dr S Daengsvang, Deputy Director-General of Health Bargkok (Thailand)
 - Professeur M De Laet, Secretaire general du Ministère de la Sante publiq e et d la Famille Brussels (Netherlands) (Vice-Chairman)
 - Dr H S Gear Deputy Chief Health Officer for the Union of South Africa Cape Town (Union of South Africa) (Chairman)
 - Dr C. L. González, Director of Public Health Ministry of Health and Social Welfare Caracas (Venezuela)
 - Dr J A. Höjer Director-General of Public Health Stockholm (Sweden)
 - Dr H Hyde Medical Director US Public Health Service Fed ral Security Agency Washington, D.C. (United States of America) Lt-Col M Jafar Director-General of Health Karachi (Pakistan) (Vice-Charmen)
 - Dr W de Leon, Director of Laboratones Department of Health Manila (Philippines) Dr M Mackenzie Principal Medical Officer Ministry of Health, London (United
 - Lingdom) Sir Arcot Mudaliar Vice-Chancellor University of Madras (India)
 - Professeur J Parisot, Doyen de la Faculté de Medecine Nancy (France) Dr G H de Paula Soura, Professor and Director Faculty of Hygiene and Public
 - Health, University of São Paulo (Brazil) Dr A. Stampar President of the Yugoslav Academy of Sciences and Arts Professor of Public Health and Social Medicine University of Zagreb (Yugoslavia)

Members designated by Poland and by Turkey were absent

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- D- M Chames, Zone Medical Impector Public Health Server Samuer Curl
 D- S Daengrang, Deputy Director-General of Health, Burgack (Financia)
 - Professor V. De Laet, Secretaire general du Vinisiere de la San., p buque et de la Far-lle Brussels (Vetherlands) (Vice Chairman)
 - D. H. S. Gear. Deputy Chief Health Officer for the Union of South Africa, Care. Town (Umon of South Africa) (Chairman)
 - D. C. L. González, Director of Public Health, Ministry of Health and Social Wessers, Caracas (Venezuela)
 - Dr.J. A. Höjer Director-General of Public Health, Slockholm (Sweden) Dr. H. Hyde Medical Director, US Public Health School, Federal Security America
- Washington, D.C. (United States of America)

 Li-Col. M. Jafar. Director-General of Health, Karachi (Paksian) (Size Chairman)

 Dr.W. de Leon, Director of Laboratories Department of Heach, Manda (Palmone)

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 - Dr M Makenze Principal Medical Officer Ministry of Health, Lordon (Lined Kingdom)
 - Sa Arcot Mudaliar Vice-Chancellor Leaversity of Madras (L.c.a)
 - Professor J Parsot, Doyen de la Fazilli. de Medecrie Cincy (Franci) Dr G H de Paula Souza, Professor and Director Faculty of Higeric and Pu lie Health, University of Sto Paulo (Brazil)
 - Dr A. Sarmar President of the Yugoslav Academy of Sciences and Arts Professor of Public Health and Social Medicine Lineralty of Zurub (Nugosla 12)

Mombers designated by Poland and by Turkey were absent.

RECENT ADVANCES IN RABIES

Great progress in the knowledge of rabies has been made in the last decade and it is to be expected that before long more important data will become available with regard both to methods of prophylaxis and treat ment and to the ecology, immunology, and pathology of the disease

Most of the recent idvances in this field have been the outcome of efforts developed by rabiologists in their particular country. Rabies however, remains a subject of universal interest and as such calls for international action.

International History

An International Rabies Conference was held in Paris in 1927 under the suspices of the Heilth Organization of the Leigue of Nations. As a result of the recommendations of this conference extensive statistical data were collected from all ribies treatment centres and analysed annually

FIG. 3 EXPERT COMMITTEE ON PARIES FIRST SESSION



Left to right (seated round table) Dr. K. Habel, Dr. H. Koprowski (Rapporteur) Dr. P. Lépine (Vice Chairman) Dr. C. Kilmt (WHO) Dr. I. A. Galfoway (Chairman) Dr. M. M. Kaplan (WHO) Dr. M. L. Ahuja Dr. H. N. Johnson Dr. G. Stuart (WHO)

Altogether data concerning over 1 600 000 persons treated were collected from which useful information was obtained ¹ Final proof of the value of Pasteur treatment could not however be obtained as no evidence was available with regard to the outcome of the disease in treated and untreated individuals

Following proposals made at the First World Health Assembly in 1948 and ratiologists all over the world were consulted by WHO on a number of technical questions by means of a questionnaire and an expert committee

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on rabies was convened in Geneva from 17 to 22 April 1950 3 to examine the replies received review the newest developments and recommend a programme of action for WHO

Active Immunization

Differences which are known to exist in the biological quality of antirables vaccines have thrown doubt on the value of current vaccination procedures. It is now well established that while certain batches of vaccine show a suitable potency others prepared under seemingly identical conditions appear to be of little value.

Experiments which have been started in several institutes and more particularly in the National Institutes of Health Bethesda Md have led to various valuable discoveries with regard to the potency test the inactivation of the rabies virus the suppression of the paralysis producing factor and the standardization of the challenge virus.

Mouse potency test

Improvement of vaccines in current use and production of a vaccine of standard potency became possible when Webster introduced a specially bred white Swiss mouse as testing animal. These mice are chape asy to breed and highly susceptible to rabies. Later Habel developed a standard tred mouse potency test which made it possible to check the potency of the vaccine at each stage of its production. This test is based on a series of immunizing injections of constant concentration and quantity which are followed by intracerebral challenge of tenfold virus dilutions on the 14th day. Mice are observed for another two weeks and then the 50° mortality endpoints are determined. A thousandfold difference in protection between controls and vaccinated animals is the minimum protection required. Owing to the use of this technique the importance of many factors in the production of a potent vaccine has been ascertained such as the need of a high infectious titre of the brains to be used for vaccine which should reach at leasy 10° 4 the kind and concentration of the inactivatine chemical

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the time and temperature required for complete inactivation—which must be calculated so that maximal intigenicity is retained. The universal and continuous employment of these potency test methods would ensure a supply of dependable vaccines, which cannot be guaranteed by the mere application of uniform production methods following a single test. Every producer should therefore be required to submit a sample of each batch of vaccine to a central laboratory for potency testing.

Ultraviolet (UV) irradiated vaccine

Rabies vaccines inactivated by ultraviolet irradiation have consistently grein high protection values in the mouse potency test. The titres are usually significantly higher than those obtained with other vaccines in current use. It has been found that as much as five times the minimal inactivating exposure has to be given before denaturation of the antigen takes place. There exists, therefore a broad margin in which it is possible to work safely. A twofold minimal inactivating exposure is usually recommended. Owing to other difficulties in the preparation of vaccines, the employment of a specially trained technician is required. Liquid preparations need the addition of an enzyme inhibitor like merthiolate 1 10 000 after the virus has been inactivated, to ensure proper keeping qualities. Apart from an initial drop in titre dried preparations keep their antigenicity well and can be recommended for use in countries where production and storage facilities are not adequate. The UV vaccine is now used for about half of the patients coming for treatment in the USA. This number is estimated at about 15 000.

Chick embryo vaccine (Flury strain)

A street virus recovered from a human case (Flury) has been subcultured in chicken and later adapted to chick embryos. In the course of numerous passages this strain has completely lost its pathogenicity for dogs when given by routes other than the intracerebral one. The embryo itself finely ground and freeze dried constitutes the vaccine. Large scale trials in dogs in the USA have given very promising results. Not only is the vaccine innocuous for dogs, but it also shows some promise of conferring immunity for a longer period than other vaccines used so fir. In experiments on a few human volunteers (cancer patients) it proved itself to be innocuous even when given in high doses.

This vaccine cannot be tested with Habel's mouse potency test. A special test, carried out on guiner pigs, had to be developed. These are immunized by intramuscular injection and challenged after three weeks with street virus given intramuscularly.

Paralysis producing factor

It had been found that so-called paralytic accidents, which had been ascribed entirely to infection with fixed virus contained in the vaccine

continued to occur when completely killed vaccines were used. Experiments in animals led to the discovery that similar symptoms and patholo goal changes in the central nervous system could result from serial injections of normal brain tissue. A systematic test was developed to check these somewhat irregular occurrences as it was found that the addition of adjuvants—lanolin and paraffin oil with killed BCG bacilli or M5co bacterium buty-ricum—to one dose of normal brain resulted fairly consistently in paralysis of the experimental animal. This test is now applied to rabies vaccines to determine the content of paralysis producing factor.

Successful attempts have been made to climinate this factor from rabies vacunes by subjecting them to benzene extraction from the dried state. The remainder of the benzene is removed by either treatment and the dried sediment taken up in calcium acetate. The washed sediment constitutes the final product. At present work is being carried out with a view to the production of this vaccine on a commercial scale.

Problem of a standard vaccine

Differences in results obtained in the mouse potency test were found to be due to the varying antigenic composition of substrains of Pasteur's original fixed virus. Some of them were capable of breaking through a high degree of immunity which had been demonstrated by a different strain while others had lost their invasiveness to a large extent. In the USA an intermediate strain has been chosen as a standard and is now being kept in the form of frozen mouse brain pools and distributed once annually to producers who use them as seed virus for a maximum of two mouse passages so as to obtain enough challenge virus to last them for the year

It is hoped that it will be possible in the near future to produce a standard reference vaccine which can then be used to control each test and which will permit immediate recognition of any faulty results of the potency test

Passive Immunization

Hyperimmune antirabies serum

The idea of passive immunization against rabies is more than fifty years old Reports have been partly favourable particularly as to the use of a

sero vaccine and partly discouraging

In recent years modern methods of purification and of concentration of the antirables serum fractions containing the neutralizing antibodies have made possible the preparation of hyperimmune serum. This scrum is obtained by repeated injection of fixed strains of rabies in rabbits or sheep. The animals are bled at regular intervals and large pools of serum or plasma prepared. These are fractionated (by such substances as ammonium sulphate sodium sulphate, or methanol) and the gamma or beta and gamma.

globulin fractions concentrated. The original neutralizing antibody titre has thus been increased a thousandfold, while at the same time the protein level was maintained at the normal value of 7%. With this serum results have been obtained in animals which are superior to any results obtainable with vaccine alone. Protection was afforded only when serum treatment was given not later than 72 hours after infection. Optimal protection was obtained when serum treatment was followed by a course of vaccine. No interference between passive and active immunity has been observed. Serum treatment suggests itself whenever severe exposure has occurred, because it has been demonstrated that in those cases where it does not of itself afford protection, it tends to prolong the incubation period and thus allows more time for active immunity to develop

New Experiments Sponsored by WHO

The WHO Expert Committee on Rabies was of the opinion that the new methods of active and passive immunization had reached a suitable stage of development for trails in the field

Mass vaccination of dogs

It is planned to hold a demonstration of mass vaccination of dogs with cluck embryo vaccine (Flury strain) in Israel where the incidence of rabies has shown a considerable increase as a consequence of neglect of regular control measures during the political disturbances

The collaboration of a well organized veterinary service has been promised and it will be the responsibility of WHO to assist in the organization of this demonstration which will not only give actual help where it is needed but also yield further valuable information on among other things, vaccination paralysis and the duration of immunity under field conditions. It will also it is hoped give an impetus to the idea of fighting rabies by prophylactic immunization of does.

Immunization of human beings

The experiments undertaken in the USA with the antirables hyper immune serum have proved most encouriging. However, the method cannot be put into general use until the experimental results are confirmed by a large scale trial. This problem was one of the most important on the agenda of the committee. After considerable discussion a defutled plan for such a project was worked out. It was agreed to entrust a field trial on this question to Dr Bultaz and Director of the Institut Pasteur in Teheran.

It was learned that on an average 50 severe wolf bites occur annually in Iran with a mortality which ranges between 30% and 50%. These bites occur in a series and when a wolf enters a village it is almost certain to be rabid.



globulin fractions concentrated. The original neutralizing antibody titre has thus been increased a thousandfold, while it the same time the protein level was maintained at the normal value of 7%. With this serum, results have been obtained in animals which are superior to any results obtainable with vaccine alone. Protection was afforded only when serum treatment was given not later than 72 hours after infection. Optimal protection was obtained when serum treatment was followed by a course of vaccine. No interference between passive and active immunity has been observed. Serum treatment suggests itself whenever severe exposure has occurred, because it has been demonstrated that, in those cases where it does not of itself afford protection, it tends to prolong the incubation period and thus allows more time for active immunity to develop

New Experiments Sponsored by WHO

The WHO Expert Committee on Rabies was of the opinion that the new methods of active and passive immunization had reached a suitable stage of development for trails in the field

Mass vaccination of dogs

It is planned to hold a demonstration of mass vaccination of dogs with chick embryo vaccine (Flury strain) in Israel where the incidence of rables has shown a considerable increase as a consequence of neglect of regular control measures during the political disturbances

The collaboration of a well organized veterinary service has been promised, and it will be the responsibility of WHO to assist in the organization of this demonstration which will not only give actual help where it is needed but also yield further valuable information on among other things, vicci nation paralysis and the duration of immunity under field conditions. It will also, it is hoped give an impetus to the idea of fighting rabies by prophylactic immunization of does.

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SIC A EXPERT COMMITTEE ON MENTH STATISTICS SECOND SESSION



Left to right (sealed round table) Dr.M. de V.ado (ILO) Dr.D. Cu.el D.P. F. Denox. Dr.P. Stocks (Chairman) Dr.M. Pascua (WHO) Dr. Marie Cakrtovs (WHO) Dr. L. Dr. Dr. L. Dynn F. E. Linde (Un ted Nations)

As regards hospital statistics the committee stressed the need to discover to what extent and by what methods it would be possible to make hospital statistics more representative of the communities from which hospital patients are drawn. The committee considered that surveys of familie or of those benefiting by medical services of all kinds would make possible a broader interpretation of hospital statistics and would thus increase their value from the public health viewpoint.

The committee also examined the question of medical certificates and the use of the Manual of the Intervational Statistical Classification of Discuss for and Causes of Death. It discussed the difficulties inherent in the use of the Manual in different countries and reaffirmed the position in that taken at its first session. It stressed the importance of encouraging national administrations to use the Manual both by preparing descriptive pamphlets and instruction manuals and by stimulating and if necessary conducting training courses for morbidity and mortality coders. Further more benefiting by the experience obtained in certain countries. WHO should promote the education of physicians in the proper use of the international form of medical certificate of cause of death by preparing and circulating pamphlets and by developing programmes for the training of physicians and medical students

Finally as regards the definitions of the terms live birth and foetal death" the committee adopted the proposal of the subcommittee appointed to examine this problem. These definitions are intended—after their

The Expert Committee on Rabies emphasized that there are man gaps in our knowledge of the epizootiology of rabies and that a great deal of research is required to give a more complete picture of the situation

HEALTH STATISTICS

The Expert Committee on Health Statistics held its second session in Geneva from 18 to 21 April 1950 1 Its principal task was to examine the conclusions of the three subcommittees which recently met in Paris and Geneva to study methods of improving cancer 2 and hospital statistics 3 and to decide on a new definition of stillbirth 4 The Expert Committee on Health Statistics adopted the reports of the three subcommittees adding to them however, a certain number of observations

Concerning cancer statistics the committee stressed the fact that the only way to obtain accurate survival and recovery rates which will be beyond criticism is to reduce the numbers of patients lost sight of and of those whose condition was uncertain to a minimum, so that it makes no appreciable difference what assumption is made about them. The committee was fully aware however that such an aim often cannot be com pletely realized and it therefore emphasized the importance, for purposes of comparability, of formulating rules for dealing with the uncertain groups and of agreeing to use them. The committee felt that it was essential that a set of rules even if imperfect should be proposed by the World Health Organization and should for the sake of uniformity be used even by those who might deem it unsatisfactory in certain respects

The following took part in this session

Members Dr D Cur el Chief D is on of Ep demiology and V tal Stat stics. Ministry of Health and Soc al Welfare Caracas Venezuela

Dr P F Denoi Chef des Servi es techn ques et de la Section du Cancer Institut national d'Hyg Pe

Parts France
Dr II L Dunn Chief National Office of Vital Status 5 (US Public Health Service) Washington,
DC USA

Dr P Stocks Chief Med cal Statist 1 an General Register Off e of England and Wales London, United Lingdom (Ch i man) Representati e of the United Nation

F E. Linder Ch of Populat on and Vital Statist a Section Statist cal Office Lake Success N Y Observer

Dr M de V ado Social Security Sect n ILO

Sertit

Dr M. Pascua. Deputy Director. Division of Health Statistics. WHO (Sec eta v) Dr Mane Cakriova International Nomenci ture of D cases and Ca ses of Death Section WHO Dr M Kaeprzak Professor of Hyg ene D rector State School of Hyg ene Warsaw P land was unable

to attend The report of the comm tice will be published as No Id Illth Og 1 chn Rep Ser 1950 25

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guen on these documents In this connexion Dr J Cheminesen Chief of the Danish Cancer Registry found that the higher incidence of gastric cancer in Sweden as compared with that in England was partly explained by the fact that death certificates are drawn up by clergymen in certain Swedish provinces Furthermore it is impossible to complet statistics of cancer cases from which useful conclusions can be drawn if adequate vital statistics are lacking. A statistical comparison has no scientific siem figure to the problems the data are classified according to sex age groups professional and ethnological groups of individuals or other characteristics relevant to the problems being studied. In most cases such data are not available. Finally experimental research is rarely undertaken to assist statistical analysis. Under these conditions numerous interesting statistical observations are doomed to remain mere hypotheses.

Dr Clemmesen in a paper submitted to WHO concludes that

In consequence of these extensive demands a close collaboration with the public statistical services involved in stall to the development of good statistics. However 11 most come considerable statistics with the statistic statistics with the statistic statistics. However 11 most come considerable statistics which the statistic statistics which the statistic statistics which the statistic statistics which is statistically statistically statistics which is statistically statistically statistically statistics which the statistics which is statistically statistically statistics which is statistically statistically statistics.

New International Effort

A WHO Subcommittee on the Registration of Cases of Cancer met in Paris from 6 to 10 March 1950 1 to review the statistical problems involved in the study of cancer 2. In particular the subcommittee studied the question of mortality and morbidity statistics the difficulties involved in the statistical presentation of therapeutic results and the advisability of continuing the publication of the Annual reports on the results of radio therapy in cancer of the uterine cervis.

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adoption by the World Health Assembly-to be included in the national regulations relating to statistics on birth and stillbirth

The next session of the committee which will probably take place at the beginning of 1951, will be devoted to the study of the problems raised by morbidity statistics. The session will be concerned, in particular with outlining evaluating, and selecting projects requiring international action in this field.

PROBLEM OF CANCER STATISTICS

Since the publication in 1775 of the classical work of Pott on chimney sweeps' cancer studies devoted to the etiology of cancer have become more and more numerous. Pott not only described the clinical symptoms and the etiology of this viriety of cancer but he also indicated certain preventive measures. More than 140 years elapsed however, before cancer was experimentally induced and the medical profession fully understood the importance of carrying out statistical and experimental studies on this subject. An example of failure to pursue this type of study is the lack of attempts to confirm the discovery made in 1926 by Young and Russell that there is a causal relation between alcohol consumption and the incidence of cancer of the upper digestive tract.

Value of Available Data

It is now no longer possible to doubt that certain studies on the etiology of cancer can lead to the discovery of new methods of prevention. The carcinogenic effect of certain substances e.g. pitch aniline dyes tar rudioactive substances and x ruys has been demonstrated both experimentally and statistically. More often however various frictors have been held responsible without any scientific proof it has been stated that childbirth favours the appearance of cancer of the uterine certain, that the incidence of gastric cancer both in Sweden and in Czechoslovakia is three times greater than in England that cancer is much more prevalent among Italians in the northern than among those in the southern provinces. Until such statements have been subjected to rigorous experimental investigation and statistical analysis they will have no practical value.

Research workers who undertake statistical studies of cancer however always have to overcome considerable difficulties. For example most statistics on cancer are based on the analysis of death certificates and there are sometimes reasons for doubting the accuracy of the diagnoses.

made in England and Wales of geographical variation in mortality from cancer of specific sites. These studies were examined by the subcommittee which felt that such data might lead to interesting conclusions concerning the etiology of cancer. Consequently, it recommended that national committees and other appropriate agencies should undertake more studies of this nature. In cases where these studies bear upon the difference better upor that difference better upon the difference better upon the difference better upon the difference better upon the difference better upon and rural areas, it will be necessary to define exactly what is understood by the words "rural" and urban and to indicate clearly what corrections have been made for the deaths of non residents.

Morbidity statistics and cancer registration

In hospitals in many countries such as Canada France and Great Braum cancer cases are registered and followed up after treatment Further more a special effort is at present being made in Demark Norway and the USA to ascertain the total cancer morbidity in selected cities and data is

It is clear that such research is very valuable since it not only increases the possibility that in the future patients developing cancer will at the earliest opportunity, receive the best treatment available but it will also increase our knowledge of the morbidity of caneer and its relation to social and environmental factors. The subcommittee decided that the use of methods for registering cancer cases which include information on the post treatment histories of the patients should be encouraged. The final aim will be to include in such registration systems all persons suffering from cancer thus eliminating errors from incomplete observations and permitting the determination of exact morbidity survival and apparent recovery rates. Efforts made in many countries to determine the total insidence of cancer in certain selected areas will also be encouraged. The subcommittee did not feel however that it should recommend legislation for the compulsory notification of cancer.

In order to achieve greater precision in and to improve the comparability of data relating to cancer morbidity and the therapeutic results obtained national committees and other appropriate agenties will be asked to prepare definitions illustrated by diagrams if possible of the practical anatomical sites affected by cancer and of the stages of the disease that is the extension of the neoplasm. These definitions will be submitted to the subcommittee for discussion and approval

Statistical presentation of therapeutic results

At present there is no universally accepted method for calculating urival and apparent recovery rates for cancer. Consequently it is not obsible to make an exact comparison of the results of different treatments is ungle fixed interval—for example, five years—before results are recorded.

Mortality statistics

So far there is unfortunately, no general agreement concerning the statistical definition of the term "cancer In fact, in the International Lists of Diseases and Causes of Death—the precursors of the Manual of the International Statistical Classification of Diseases Injuries, and Causes of Death 3—Hodgkin's disease leukaemia and aleukaemia, mycosis fun goides and some other less common diseases were not classified as cancer. It is necessary, therefore to find some way of removing all doubt concerning the statistical definition of cancer without at the same time making it impossible to compare future statistics with those already existing. For this reason the subcommittee recommended that the total number of deaths from cancer should be based on the classification given in the Manual. The diseases which have just been mentioned will therefore be incorporated in the cancer group. The subcommittee requested however that to permit comparison with past statistics the following subgroups should also be shown cancer (excluding Hodgkin's disease leukaemia and aleukaemia?) Hodgkin's disease leukaemia and aleukaemia.

Some members of the subcommittee felt that certain problems had arisen in the use of the section entitled. Neoplasms in the Manual For instance the Manual does not give sufficient details about certain anato mical sites. Furthermore the inclusion of secondary sites in the same subsection as primary sites also gives rise to certain difficulties, as does the lack of precision in the definitions of the various sites. Finally, when cancer is mentioned on death certificates along with other causes the presentation of the statistical data is not always easy.

The subcommittee expressed the wish that users of the Manual should communicate to WHO information concerning difficulties encountered in connexion with the section on neoplasms together with specific sueges tions for overcoming them. The information thus collected will be studied

by the subcommittee during a forthcoming session

There is one particularly important task which devolves upon those helping to compile cancer statistics—they must endeavour to evaluate and improve the accurricy of cancer diagnoses given on death certificates. During recent years too little rittention has been paid to the reliability of the data entered on death certificates. For this reason the subcommittee deemed it advisable to draw the attention of the national committees on health statistics and of other appropriate agencies to the need for a systematic comparison of the diagnoses given on death certificates with the results obtained from postmortem examinations and from other relevant sources of information.

Another problem examined by the subcommittee was that of the variations found in the geographical distribution of cancer. Studies have been

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AFRICAN RICKETTSIOSES

Since the discovery of the transmission of classical typhus by Nicolle (1909) knowledge of the rickettsioses has been progressively extended and during recent years the existence of new pathological entities such as Q fever has been established Although theoretical knowledge of the epidemiology clinical course and laboratory investigation of the rickets sioses is now fairly complete the same cannot be said regarding equally important problems such as the geographical distribution, the prevention and the treatment of these diseases. In particular despite the advances made especially during the last ten years data on the geographical distribu tion of the rickettsioses throughout the African continent are still fragmen tary and incomplete. This state of affairs may be readily explained by the lack of specialized laboratories and the shortage of doctors and qualified technicians especially in tropical Africa where the organization of adequate services began only a few years ago. Furthermore physicians have had to face the more urgent problems presented by diseases such as trypano somiasis or malaria

The work of Blanc Cambournac Ceccaldi Garnham Gear Giroud Jadin Le Gac Vaucel etc has already made it possible not only to assemble important data on the distribution of rickettsioses in various parts of Africa but also to recognize the clinical and epidemiological aspects of these diseases 1

However it was necessary to determine the present position and to co ordinate all these data with a view to further research. This task was successfully accomplished by a Joint OIHP/WHO Study Group on African

Rickettsioses which met in Brazzaville from 8 to 14 February 1950 2 After reviewing the results of research carried out on the geographical distribution of the rickettsioses in Africa the study group considered in succession the characteristics shown by these diseases on the African

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although appropriate for certain types of cancer, is not necessarily suitable for all kinds of neoplasms. The subcommittee recommended that survival and apparent recovery rates should be calculated for successive intervals of one year, cumulative rates for periods greater than one year being obtained by multiplication of consecutive annual rates. In addition the subcommittee adopted certain definitions and rules which it is hoped will help to improve cancer statistics, and recommended certain methods for calculating annual rates, for correcting the crude rates to allow for initial mortality and for adjusting the crude apparent recovery rate. A definition of survival rates was also given by the subcommittee.

Annual Reports on the Results of Radiotherapy in Cancer of the Uturne Cervix

The subcommittee considered the Annual Reports on the Results of Radiotherapy in Cancer of the Uterine Cervix, edited by Dr J Heyman the fifth volume of which was published under the auspices of the British Empire Cancer Campaign (London) the Donner Foundation (Philadelphii) the Cancerforeningen (Stockholm) and the World Health Organization

The subcommittee felt that the systematic collection and presentation of statistical data on therapeutic results in accordance with standard rules and methods would undoubtedly encourage improvement of methods of treating cancer patients. Consequently it recommended that publication of the Annual Reports should be continued, but it suggested certain modifications which it considered necessary.

Future prospects

The subcommittee restricted itself during its first session to a discussion of specific problems of statistical methodology Many other problems of considerable importance were passed over for the time being problem of cancer statistics remains extremely complex and difficulties which several generations of statisticians have not been able to overcome cannot be solved during one brief session Nevertheless the meeting of the subcommittee represents an advance in this field. It is to be hoped that the adoption of generally accepted methods will lead to the discovery of new facts The success of such an undertaking will not be assured however until every member of the medical profession ceases to regard medical statistics as a tedious and useless administrative activity and realizes that in the long run it is he himself who will benefit most from the advances in science and medicine which the compilation of adequate statistics will promote

The Weil Felix reaction in murine typhus is comparable to that civen by classical typhus but gives a lower agglutination titte

Tick typhus

Inoculation of the male adult guinea pig with blood from an intected person causes after an incubation period of four to seven days. high $C_{\rm t}$ r accompanied by inflammation of the tunica vaginalis. In the guinea pig hypertrophy of the spleen is moderate.

The Weil Felix reaction with OX2 and OX19 is variable and late. When the agglutination titre is higher with OX2 than OX19 the probability of tack typhus may be concluded. The reaction is rarely positive before the tenth day. With the OXL strain the reaction is more frequent and gives a higher titre than with the preceding antients.

Q fever

Intraperitoneal inoculation of the guinea pig with blood from an infected person gives rise to a very high fever which appears two or three days after inoculation and lasts five to seven days. Q fever often results in the death of the guinea pig although at a late stage. Inflammation of the tunea vaginalis is not seen, but there is very marked enlargement of the spiten with persplenits, and humerous necketistae are present in the cells of the peritoneal exudate.

The Weil Felix reaction is negative with all strains Agglutination of the neketisae is positive from a titre of 1/5 and may reach 1/40 These serological indications may persist for several years

Clinical Syndromes Provisionally Ascribed to the Rickettsioses

The experts agreed that the term Congolese red fever which actually covers diseases which may be related to one or other of the different varieties of typhus should be definitely abandoned 4

Le Gae has reported the occurrence in Ubangi Shari of a severe epidemicdisease whose symptoms are related to those of classical typhus this disease has been called savanna typhus (typhus desavanes). How ever further research will be necessary to determine the identity of this

Research to be Undertaken

Important research remains to be undertaken on the preuse geographical distribution of the different rickettsioses observed in Africa both in man and in certain animals. For example, it is not understood why murine

Co g lese red fe er has b en d ussed by Ca d M (1949; B H World HI h O g 2 57

continent, present laboratory data, the clinical syndromes provisionally attributed to the rickettsioses and finally the prophylaxis and treatment of these diseases

Research to be undertaken especially concerning epidemiology and laboratory investigations was given particular attention by the study group

Characteristics of the Various Rickettsioses in Africa

While classical typhus may take epidemic form, murine and tick typhus are found only as sporadic cases or isolated groups of cases 3. The symptoms of classical typhus and those of murine typhus are fairly similar. Inoculation sore (tache noire), maculopapular eruption covering the whole body, including the palms of the hands and soles of the feet as well as the symptoms of mental excitement during the febrile stage, are characteristic of tick typhus. O fever is characterized especially by pulmonary symptoms

I aboratory Investigation

Classical typhus

The intraperitoneal inoculation of a guinea pig with 4 or 5 ml of blood from a patient in the first days of the febrile stage causes after ten days, a febrile reaction which continues for five or six days ending in recovery The scrotal reaction which appears on the first passages through a male adult guinea pig subsequently diminishes. It is less pronounced however, after injection of human blood than it is after inoculation with crushed infected lice

Serological diagnosis is made by means of the Weil Felix reaction In 90% of cases this is positive from the second week of the disease. Dif ferential diagnosis of murine typhus is not possible with the Weil Felix An agglutination titre of 1/200 with OX19 is necessary before the reaction can be considered positive. An increase in the titre during the course of the disease is however more significant than the titre itself For both classical and murine typhus agglutination titres are higher with OX19 than with OX2 and OXK

Murine typhus

In the male adult guinea pig inoculation with blood from an infected person causes orchitis with inflammation of the tunica viginalis (Neill Mooser test) the endothelial cells in the hound exudite and the cells of the tunica vaginalis are filled with rickettsiae

At the present stage of knowledge human rukettsioses in Africa may be an uped as foll with In the personst stage to a more reason and man tradettions in Africk may be got upod at foll as (i) classical lound-bother typths of feeling and caused by Ri kett la prove eki.

() muttine flea-bother typth is caused by Rickett la moot et (i) tack typhus including bo tonneuse lever ketnys typhus and South African ick, but fever caused by Ri Metting come!

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Treatment of the Rickettsioses

Besides the classical symptomatic drugs aureomycin and chloromycetin have proved to be very effective in the treatment of rickettisioses provided that they are administered at the onset of the disease. It is desirable that these antibotics be rapidly placed at the disposal of doctors in areas where the rickettisioses are prevalent 5

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Reports from WHO Fellows

Many of the letters and reports received from WHO Fellows have been of such interest that they deserve to be read by a wider public. They demonstrate more vividly than a series of facts and figures both the nature of the fellowship programme and the response of the Fellows themselves Selections from these reports have therefore been published from time to time but it must be emphasized that the opinions expressed are those of the Fellows.

Biochemistry and Clinical Experience

Dr S A Mahkota Assistant Physician at the Clinic for Internal Medicine of the University of Ljubbjana (Yagoslavia) has spent several months in Sosts university medical clinica studying recent advances in medical chemistry and their applica tion to therapeutics He ended his study trip with a visit to the United Kingdon.

During his study trip Dr Mahkota familiarized himself with recent biochemical discoveries relating to amino acids proteins vitamin B12 adrenocorticotropic hormone (ACTH) cortisone etc which have opened up new perspectives in medicine. He studied their therapeutic application and paid particular attention to methods for the analysis and determination of these various substances The experience which he gained as regards laboratory research on the one hand and therapeutics on the other led him to re consider his views on the relationship of biochemistry to clinical medicine. He expresses in spite of the momentous discoveries we could say a his attitude as follows complete revolution brought about by modern biochemistry this science alone will not be able to yield the desired results without a close co-operation with serology and clinical work My earlier conviction that clinical work plays but a subordinate less important role was shaken when I found that only careful clinical observations can supply biochemistry and other sciences with such ideas that will serve as signposts for These [clinical] observations still produce sound progressive ideas the real nature of which is defined by biochemistry and serology

At the Medical Clinic of the Zurich Cantonal Hospital Dr Mahkota studied methods for the analysis of serum proteins by electrophoresis the microscopical analysis of blood

typhus is distributed over almost the whole of Africa whereas classical typhus has rarely been reported there

Other subjects which should be studied are the possibility of the transmission of murine typhus by ticks and other members of the order. Acanna, the antigenic characteristics of the various strains of the runner typhus virus, the possibility of classical typhus changing into murine typhus and vice versa the efficacy of various products for destroying or repelling ticks and the existence of nekettsioses transmitted by Trombidudae.

The study group feels that it is necessary for each region of Africa to have a specialized laboratory where diagnostic tests can be carried oit, such tests being confirmed by central laboratories. The latter would also be responsible for preparing standard suspensions of rickettsiae and distributing them to the regional laboratories. This research could later be co-ordinated with laboratories in other continents.

The study group recommended that WHO should supply technical and financial assistance to the central laboratories

Prophylaxis of the Rickettsioses

Preventive measures depend on the way in which the rickettsioses are transmitted. Thus the method of choice for the prevention of classical typhus is the application of DDT. The stenlization of louse excreta may be ensured by steeping personal effects in a weak antiseptic solution and then exposing them to sunlight. Vaccination should be reserved for subjects who are specially exposed to infection.

The control of the ectoparasites of the rodent reservoirs of murne type, and the use of new rodenticides constitute the most important preventive measure against this form of typhus

The prevention of tick borne rickettsioses consists in freeing infested animals from their parasites whenever this measure can be applied e.g. in the case of domestic animals. In this case the animals may be dipped in a solution of sodium arsenite or sprayed with DDT or gammevane in a dilution of 2 in 1 000. Controlled bush fires may also be useful against the ticks which swarm in such places.

For subjects exposed to tick bites the prophylactic use of 0.25 g of aureomycin or 0.5 g of chloromycetin daily is recommended. The use of these drugs should be continued for 21 days following exposure to the bites. Larger doses of these antibiotics may check tick typhus provided that they are administered during the incubation period.

For the prevention of Q fever the measures recommended include destruction of ticks sterilization of milk in infected areas and the isolation of patients to prevent interhuman transmission through the respirators tract Disgnoses are coded by the International Statistical Classification of Diseases Injuries and Causes of Death (1948) ² with a view to correlating findings in this country with those in others

National Morbidity Inquiry in England and Wales

The following information concerning innovations in methods of collecting and compiling hospital statistics in England and Wales is from a note submitted to the WHO Subcommittee on Hospital Statistics (of the Expert Committee on Health Statistics) by Dr P. Stocks Chief Medical Statistician General Register Office of England and Wales London

From 1st January 1949 arrangements were made for the large tacking hospitals and a representative number of other hospitals of different kinds to make records of in patients on a standard form. This form requests information about sex age manula status occupation and burth weight of babies form in hospital as well as statements of final diagnoss designed to show separately principal disease complications and accessory acute conditions and of certified cause in cases where death has super weed. The reverse side of the form has been designed to allow for the casy recording of full details of all cases of accent insury or prosoning

"At the end of every month these forms completed in respect of patients who were discharged or who died during the month are sent to th. General Register Office where they are coded the data being recorded subsequently on punched cards for tabulation by machine. Approximately 350 000 forms were completed during the year 1949

WHO Antimalaria Activities in India

In 1949 four malaria demonstration teams began operating in India under the technical supervision of WHO and with supplies furnished by UNICEF. These teams have been engaged mainly in demonstrating modern malaria-control methods and in training local nersonnel.

An important part of the programme of the demonstration teams is the health education of the public. An example, of this aspect of their work comes from the team operation in the Jeptore Hills area in India. With the help of the District Public Relations Officer public meetings were arranged in nine different centres and were attended by more than 1000 people. In some cases the meetings took place at weekly markets which are attended by the inhabitants of a wide, circle of villages. At one meeting a pertoin was presented asking the Government of India to continue malaria-control work indefinitely and a general approximation of the results already achieved was voiced.

Talks were given on the cause and prevention of malaria the programme of work of the demonstration team and the ways in which the public could co operate. Theff purpose was to persuade the p.ople to complete repair work on their houses a month or two earther than usual and to impress upon them the necessity of leaving the

walls and roofs untouched once the spraying with insecticides had begun.
Lessons in public health including talks and demonstrations on insect borne diseases and their presention were given in 13 schools and 727 schookshildren were examined. The lessons were attended by a number of adults and children not in school.

The pissons were attended by a number of adults and understood may be be the care of persons overed an area of 80 square kilometres and afforded protection to a total population of 60 900. The quantity of technical grade DDT provide persons of the capacity of DDT used per capita PPysacy per square metre per year was 2.1 g. and the quantity of DDT used per capita PP year was 3.2 g. No vectors were found nine months after the spraying in the houses (bedrooms) of Yuliases sprayed in July and August 1499.

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specimens, and the drawing up of myelograms and splenograms. In the biochemical laboratory of the Medical Polyclinic of Basle University, he was particularly interested in the quantitative estimation of gamma globulins in blood serum. While working in the Medical Polyclinic at Berne, he paid special attention to the effect of sympathicolyses on peripheral circulatory disturbances and hypertension, these phenomena are considered there from both the clinical and the biochemical aspects. He also carried out microscopical research on various types of anaemia, this work included the cytological control of the therapeutic effects of vitamin Bi₁₂ and research on antidotes of folic acid

In London Dr Mahkota was able to attend extension courses given at the Post graduate Medical School of London Hammersmith Hospital Thanks to the kindness of the Ministry of Health he gained some idea of the campaign against rheumatism yisting the Special Unit for Rheumatism in the Canadian Red Cross Memonal Hospital

at Taplow as well as the Lister Institute

Now that he has returned to his own country. Dr. Mahkota intends to continue his studies particularly on the blood and humoral dyscrasias and their relation to protein metabolism. He also wishes to share with other practitioners the experience he has acquired and is therefore planning a series of articles to appear in the medical press of Slovenia giving information on modern therapy in internal medicine and helping to popularize methods which up to now have not entered into routine use.

Notes and News

Mental Health Statistics in England and Wales

Improvements in the collection and compilation of statistics on mental health in England and Wales have been described in a note recently submitted to the WHO Subcommittee on Hospital Statistics (of the Expert Committee on Health Statistics) by Dr P Stocks Chief Medical Statistican General Register Office of England and Wales London An extract from this note follow:

"The reorganization of the Mental Health Services provided an opportunity to revise the methods of collecting and compiling statistics of mental illness and defect. Some of the forms and classifications which hid been in use for many years were out of date and the information obtained from them inadequate. In consultation with the General Register Office the Board of Control adopted two forms of hospital index card one for cases of mental disorder the other for cases of mental deficiency.

Index cards have been completed in all National Health Service mental hospitals and mental deficiency institutions in respect of all patients admitted or discharged on or after 1st January 1949. They are sent at regular intervals to the General Resister Office where they are coded and machine card punched. More limited dist were obtained about long stay patients is e those in the hospitals or institutions before the 1st January 1949 who were still there on the 31st December 1949 so that the records will provide a complete census of patients who were in or prised through mental hospitals and mental deficiency institutions during the first year in which the scheme operated.

"The aim is to have information covering all aspects of mental health so that specific actions may be answered and general trends discussed. The information is in such a form that it can be compared and related to general medical and population statistics."

Mental health



CHRONICLE OF THE WORLD HEALTH ORGANIZATION

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House to-house visits were carried out in four villages. Blood smears from babes under one year and from suspected malaria victuria were examined and paulonia treat ment was given to confirmed cases. Of these cases the largest number came from un sprayed villages. Health inspectors report that only a few cases of malaria were found in the sprayed villages and this is confirmed by information from the village people themselves.

Special Issue of the British Medical Journal on WHO

An international health number of the *British Medical Journal* was published on 6 May 1950. The issue contains the following articles dealing particularly with the work of the World Health Organization.

"The World Health Organization" by Dr Brock Chisholm Director-General of WHO A discussion of the Constitution aims and scope and the organizational structure of WHO.

Advisory Services of the World Health Organization by Dr Martha M Eliot, Assistant Director General of WHO Department of Advisory Services A description of the special services provided by WHO to governments and of WHO field activities in malaria, venereal infections tuberculosis material and child health etc.

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"Origins of International Health Work" by Dr N Howard Jones Director Division of Editional and Reference Services WHO

"Therapeutic Substances in their International Aspects" by Sir Sahib Singh Sokhey
Assistant Director General of WHO Department of Central Technical Services A
description of WHO s work in biological standardization unification of pharmacopoeus,
and addiction producing drug.

and adoction producing drugs
"Medical Statistics and World Health" by Dr Percy Stocks Chief Medical Statistican General Register Office London
Member of the WHO Expert Committee
on Health Statistics

"The International Control of Epidemics" by Dr Yves Biraud Director Division of Epidemiology WHO A discussion on international epidemiological intelligence services broadcasting of information revision of sanitary legislation and the drafting of new WHO sanitary regulations

"The World Health Organization Library" by Miss Ethel Wigmore Librarian WOO A description of the organization of the library and the assistance it gives to governments in the provision of medical literature

The number also includes an illustrated article on some aspects of WHO activities in the field and three editorial articles on world health international statistics and standardization of drugs.

IMPORTANT ANNOUNCEMENT

Beginning with Volume 3 No 1 the Bulletin of the World Health Organization will no longer be published in separate editions in English and in French Instead a single edition will be published which will contain articles either in English or in French according to the language in which they were submitted with summaries in both languages

DRUG NOMENCLATURE AND STANDARDS

Sixth Session of the Expert Committee on the Unification of Pharmacopoeias

Discussion of the reports and of the draft monographs prepared for the addendum to the Pharmacopoea Internationalis were the principal ite i on the agenda of the sixth session of the Expert Committee on the Unifical

tion of Pharmacopoeias, held in New York from 20 to 29 April 1950 3 During the session the committee also studied the setting up of some mechanism for assigning non proprietary names to drugs and examined various other problems including drug control and fellowships

Pharmacopoea Internationalis (Ph I) and Addendum

The final details were settled for the simultaneous publication in English and French of the first edition of the Pharmacopoea Internationalis 1 Spanish translation based on the English and French versions will be

prepared later The World Medical Association had communicated to the committee its opinions concerning the table of doses and the International Union of Chemistry had approved the graphic and chemical formulae

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RECENT AND FORTHCOMING MEETINGS

1950	
1 10 June	WHO Executive Board sixth session Geneva
7 12 August	WHO Expert Committee on School Health Services first session Geneva
28 August 2 September	Joint ILO/WHO Committee on Occupational Hygiene first session Geneva
4-7 September	WHO Regional Committee for the Eastern Mediterranean third session Istanbul
8 9 September	WHO Regional Conference on Statistics Istanbul
11 16 September	WHO Expert Committee on Mental Health, second session Paris
11 16 September	WHO Expert Committee on Tuberculosis fifth session Geneva
22 26 September	WHO Regional Committee for South East Asia third session $$ Landy Ceylon
23 September 2 October	WHO Expert Committee on Venereal Infections Subcommittee on Serology and Laboratory Aspects second session Paris
25 30 September	WHO Regional Committee for the Americas second session. Pan American Sanitary Organization Directing Council fourth meeting Ciudad Trujillo
4 11 October	WHO Expert Committee on Insecticides second session Geneva
9 18 October	WHO Expert Committee on International Epidemiology and Quaran tine third session Geneva
30 October 4 November	WHO Expert Committee on the Unification of Pharmacopocias seventh session. Geneva
6-11 November	WHO Expert Advisory Panel on Brucellosis Washington
6 11 November	WHO Expert Committee on Biological Standardization fourth session Geneva
27 November 9 December	WHO Malaria Conference in Equatorial Africa Kampala Uganda
December	WHO Expert Committee on Public Health Administration first ses sion Geneva
II 16 December	WHO Expert Committee on Malaria fourth session Lampala Uganda
1951	
22 January	WHO Executive Board seventh session Geneva
7 May	Fourth World Health Assembly Geneva

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Sixth Session of the Expert Committee on the Unification of Pharmacopoeias

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FIG 1 EXPERT COMMITTEE ON THE UNIFICATION OF PHARMACOPOEIAS SIXTH SESSION



Lett to right seated Dr.I. R. Fahmy. Professor E. Fullerton Cook (Vice Chairman). Dr. C. H. Hampshire (Chairman). Dr. H. Baggespand Rasmussen standing. Dr. C. A. Morrell (co obted member). Dr. D. Mayoral Pardo (co opted member). Dr. D. van Os. Dr. H. Flück. Dr. R. Hatard. P. Bane (WHO).

Members of the committee and co opted members mide statements on the probable attitudes of their governments to the first international pharmacopoeia. It is expected that Clanda which has as yet no real pharmacopoeia will establish one, probably using the Ph I as a basic in Denmark a revised edition of the Dinish pharmacopoeia has recently been published and the tutles and standards of the Ph I will be adopted wherever possible in the addendum now under preparation. Ph I titles and standards will be adopted in the edition of the Egyptian pharmacopoeia which is to appear shortly. The US pharmacopoeia will idopt the titles as titles or synonyms except in cases where proprietary names already exist the international reference standards will continue to be adopted as hitherto in so Gara a applicable. The new edition of the French Codec will incorporate as many of the Ph I monographs and standards as possible. A second edition of the Mexican pharmacopoeia has just been issued subsequent editions will probably adopt Ph I standards and Inchesting the Ph I titles are already in use and the standards will also be adopted as far as possible. The British pharmacopoeia in its next edition will conform to the Ph I except for cert in details. The Swiss pharmacopoeia already includes some of the titles and standards in the second supplement to its fifth edition. I larger number of these will probably be included in the sixth edition, which is being prepared.

The first edution of the Ph I deals chiefly with the drugs most commonly in use and to complement it the publication of an addendum is envisaged for the end of 1951. A great number of meetings during the session were devoted to the examination of some of the two hundred or so monogriphs to be included in the addendum. These cover the principal antibots and new products whose value has been proved. Injections and tablet are included and a table of posology for children so far provided by only ref we mational pharmacopoeius will be inserted. It is also probable that new methods of analysis such as chromatography colorimetry polarography and spectrophotometry will be included.

List of Synonyms

The committee studied a list of synonyms for the drugs included in the Ph I as well as for certain other important drugs and recommended that this list be published at the same time as the Ph I in the form of a supplement to the Bulletin of the World Health Organiation

Non Proprietary Names for New Drugs

The general principles relating to the establishment of a system of non-proprietary names for drugs as discussed during the preceding session and been communicated to Member States. A considerable number of governments have replied expressing great interest in the plan. In the course of the sixth session, the committee endeavoured to work out a mechanism which would make it possible to give non proprietary names to new drugs rapidly if possible before they were available commercially. This question presents difficulties and the committee was of the opinion that no system could be perfect since in all countries a great number of proprietary names which all countries would accept as the common nomenclature. Nevertheless the present situation would be improved and the existing confusion reduced if WHO were to introduce some appropriate mechanism on an international level.

After discussion during which information was given on the methods adopted in various countries for the introduction of non proprietary names

the committee proposed the following procedure

The national pharmacopoeia authorities or any other bodies concerned with the establishment of non proprietary names in the various countries should be requested to notify WHO of important new drugs for which it would be advisable to find common names for national and international body of the proprietary of the pro

their own competent authorities or WHO directly with regard to any new products for general use likely to be placed on sale internationally. A subcommittee of three members elected from the Expert Committee on the Unificition of Pharmacopoens should be responsible for decisions concerning names to be used. The name selected would be communicated to Member States and competent national authorities with a recommendation concerning its adoption on the national level.

Control of Drugs

A questionnaire is to be sent to Member States so that a complete documentation may be assembled to enable WHO to supply any information required on the establishment of pharmacopoetas or the control of drugs. The committee specified the points to be included in the question naire. These covered regulations in force as to compliance with pharmacopoetal standards any regulations providing standards for drugs not included in the pharmacopoetal regulations concerning labelling and advertising any differences between standards required for drugs manufactured in the country and imported drugs, and regulations with regard to the control and periodical inspection of pharmaces.

CHILD HEALTH

Fourth Session of the Joint Committee on Health Policy, UNICEF/WHO

The Joint Committee on Health Policy of the United Nations International Children's Emergency Fund (UNICEF) and WHO held its fourth session in Geneva on 30 and 31 May 1950

The following is a summary of the decisions reached on the chief items on the agenda

International Children's Centre

The 1950 1951 programme of the International Children's Centre in Paris (referred to in an earlier number of the Chronicle's) was approved in principle by the joint committee. The Director General stated to the committee that he had already given his technical approval for three

For 1 st of part spants see page 306 Chr n Borld Hith Org 1949 3 440

projects concerning a course on social paediatrics the BCG pilot station and immunology research. Among other projects proposed for the Centre which were being studied by WHO preparatory to being given technical approval are those concerning a course on child social psychiatry course on tuberculosis in children, and the question of hospital it and separation of nursing babies from the family environment

The social paediatrics course brought together this year 69 fellow 11 holders from 29 countries. The course on tuberculosis in children, which is an innovation is expected to be held towards the end of 1950 and will be given to about 20 participants from various countrie. The course on child social psychiatry is also new it stresses the importance of studying th intellectual and mental development of children from cirly til incv as well as psychological disturbances and their prevention. In particular this course deals with the latest pedagogical methods factors leading enminality the role of psychosomatic medicine in paediatrics the city of maladjusted children, and the detection of backwardness in school hildren

The research section of the Centre is studying two main subjects do inc this period immunology phenomena during tottal development and problems concerning BCG (BCG Pilot Station) The object of the immu nological research is to study the relation of congenital defermines t certain infections of the mother. For example congenital cataract the result of deterioration in the crystalline lens of the eye of the foetus tollowing an attack of rubella in the mother- will be studied experimentally

The BCG Pilot Station in Paris makes a systematic study of many practical questions on BCG vaccination. It was particularly concerned With the tuberculin and vaccine used by the Joint Enterprise and UNICEF in the mass vaccination campaigns carried out in Europe with products from the Institut Pasteur in Paris and the Statens Seruminstitut in Copunhagen

Dry BCG vaccine a subject of immediate importance and one on which opinions are divided is also to be studied. The research section will continue its work on the relative effectiveness of crude and purified tuber culin for tuberculin tests new data being continually supplied by tuber culin sampling

Research work on nutrition and on antipertussis vaccination which comes within the general programme of activities of the Centre will not be undertaken during this first period

All India Institute of Hygiene and Public Health

The committee considered and approved the proposal for the establish ment at the All India Institute of Hygiene and Public Health Calcutta of a maternal and child health section for the training of child health workers Provision will also be made for 250 fellouships available to students from other countries in the area

Insecticides

The committee approved of financial and by UNICEF for the establish ment of insecticide manufacturing plants in non producing countries. The use of insecticides in the control of various insect borne diseases is an important factor in the improvement of child health, it is known that mosquito and fly control by insecticides with a residual effect has already resulted in an appreciable decline in infant mortality in many parts of the world.

Antibiotics

The committee approved the allocation of UNICEF funds for improving the production of antibiotics particularly streptomycin crystalline pentellin urecomycin and chloromycetin. Such assistance will make it possible to modernize and extend existing installations to set up new ones and to develop research on antibiotics in selected areas in accordance with the recommendations of the WHO Expert Committee on Antibiotics.

LIST OF PARTICIPANTS

Members

UNICEF

- Dr L Rajchman Chairman Executive Board UNICEF New York USA Professeur R Debré Chairman Medical Subcommittee UNICEF Président
- du Centre international de l'Enfance Paris France (Chairman)
- Dr J Holm Chief Tuberculosis Division Statens Seruminstitut Copenhagen Denmark
- Dr W B Suich Acting Chairman Executive Board UNICEF Chairman Subcommittee on Finances and Budget UNICEF New York USA WHO
 - Dr M Mackenzie Principal Medical Officer Ministry of Health London United Kingdom
 - Dr J A Hojer Director General of Public Health Stockholm Sweden
 - Dr H van Zile Hyde Medical Director US Public Health Service Washington D C USA
 - Dr A Stampar President Yugoslav Academy of Sciences and Arts Professor of Public Health and Social Medicine University of Zagreb Yugoslavia

Alternates

WHO

- Dr C van den Berg Director General for International Health Affairs Ministry of Social Affairs The Hague Holland
- Dr H S Gear Deputy Chief Health Officer for the Union of South Africa Cape Town Union of South Africa

Secretaries

UNICEF

Dr B Borcu WHO Liaison Officer UNICEE Paris France

WHO

Dr D A Messinery Medical Officer Office of the Assistant Director Ceneral Department of Advisory Services

Also present

Dr R Gautier Director of Research International Children's Centre Para France

Dr C K. Lakshmanan Director All India Institute of Hygiene and Public Health Calcutta India

Dr C Palmer Director Tuberculosis Research Office WHO Copenhagen Denmark

Secretariat UNICEF

NICEF
Mr M Pate Executive Director UNICEF New York USA

Mr A E Davidson Director UNICEF European Office Paris France

Dr Brock Chisholm Director General

Dr M Eliot Assistant Director-General Department of Advisory Services Mr M Siegel Assistant Director General Administration and Finance

Mr H Bosch Chief Environmental Sanitation Section

Mr J W Wright Secretary Expert Committee on Insecticides

INCIDENCE OF POLIOMYELITIS, 1947-1949

The world distribution of poliomivelitis and the factors causing epidemic outbreaks of the disease are little known at present. Despite the very extensive literature published during the last fifteen years on the various aspects of poliomyelitis only slight progress has been made as far as knowledge of its epidemiology is concerned. Furthermore when it is remembered that non paralytic poliomyelitis is practically never diagnosed except during epidemics and that even classical poliomyelitis is hardly ever reported in regions with a shortage of physicians it can be seen that the extent of present knowledge concerning the geographical distribution of poliomyelius is very limited.

The latter observation is of importance since it explains why as shown by the statistics there is a marked lack of balance in the notifications of pollomyelists from different areas. Thus notifications for Africa in 1949 amount to scarcely half of those for France during the same year. For 1948 the number of reported cases of pollomyelists for the whole of Central and South America is less than 80 / of the notifications for Canada alone. The last general study of the distribution of polomyelitis in the

The last general study of the distribution of poliomyelius in the world was published in 1947 by K. Stowman in the Epidemiological and Vital Statistics Report. In a recent issue of the same publication?

Dr M J Freyche Chief of the Epidemiological Information Section of WHO has dealt with the distribution of poliomyelitis from 1947 to 1949

Europe and USA

As regards poliomyelitis the years 1945 for the USA and 1946 for Europe can be considered as relatively normal. Thus in the USA the number of cases reported for 1945 corresponds to the median number of figures recorded from 1942 to 1948. However in 1946 the number of cases reported—25 191—exceeded by 9,500 and 6 000 respectively, the figures for those years during the period 1926 to 1945 when the endemic level was highest, i.e. the years 1931 and 1944. In 1948, 27 667 cases were reported representing a new increase of 10% over 1946. In 1949 there was an un precedented increase in poliomyelitis in the USA, the number of cases reaching 42 375 an increase of 209% over the median number of cases reported between 1942, and 1948. The incidence of the disease, however varied considerably in the different States.

The 1946 epidemic in the USA was followed by a similar outbreak in Europe in 1947 more than 29 000 cases being registered in the latter year thus exceeding the 1946 figure by 140%. In 1948 the number of cases was 33% less than in 1947 with the exception of a few countries only From 1948 to 1949 the number of cases rose from 19 622 to 20 374. In 1949 in certain countries France and Iceland for example the figures were the highest recorded in the United Lingdom the figure was the second highest and in Sweden the third highest. In France the 1949 epidemic is considered the most severe in 20 years. It was characterized by the wide dispersion of the cases and the apparent absence of any connection between them. In England and Wales, the 1949 epidemic was after that of 1947, the worst one recorded during the past 25 years. The whole of the country was affected the most pronounced increase being reported in the south west.

Other Areas

The data for the American continent apply mainly to North America Notifications from other areas are not sufficient for conclusions to be drawn from them and in certain countries they are totally lacking for 1949. In Canada the third highest number of cases was observed in that year.

In Africa the number of poliomyelitis cases notified in 1949 represented only half of those reported for France alone 80% of the figures come from the Belgian Congo Kenya Tanganyika and the Union of South Africa The highest figures in Asia were reported by Japan The other data

are too fragmentary and incomplete for any conclusion to be drawn. As

regards India however, Dr N Kezerian who was in charge of a WHO team there³ states that 20% of infirmities among children there can be attributed to poliomychits. In New Zealand the second highest number of cases occurred in 1948: the epidemic which had broken out at the end of 1947 continuing until April 1949. In Australia the epidemic appeared later and the incidence in 1949 is considered the highest since 1939.

The causes of the irregular appearance of polomyelius in the world and of the epidemic outbreaks will perhaps be explained only after epidemiological and immunological research has been carried out in different patts of the globe. The incidence of cases according to sex age and profession should also be studied.

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MORTALITY IN EUROPE

A first contribution to medical statistical documentation on mortality by cause sex and age throughout the world was recently published in the Epidimological and Vital Statistics Report. The information is presented in tabular form preceded by explanatory notes by Dr M. Pascua. Acting Director of the WHO Division of Health Statistics.

These tables give the most recent information available on mortality in a certiain number of European countries the data being classified according to cause of death uge group and sex. Additional information is also given concerning the number of live births (classified by sex) and the corresponding population figures for the respective countries (classified by sex and by age group). This will make it possible to calculate specific death rates without difficulty.

In his introduction Dr Pascu's recalls that the publication of mortality statistics is one of the duties assigned to WHO by its Constitution such publication having been explicitly recommended by the WHO Expert Committee on Health Statistics at its first session in May 1949. This documentation dealing with a few Iuropean countries serves to initiate a series, which will eventually include all countries throughout the world which can supply similar information on mortality by cause. Furthermore the dart available at present will be incorporated in the general study dealing with the evolution of mortality in Europe during the twentieth century the second part of which has just appeared?

The compilation of such data has a twofold interest. These statistics can be of immediate value in the establishment of health programmes by the appropriate administrations. Moreover they will make it possible to appreciate the changes which the various mortality factors undergo in different countries in the course of years, they will offer a unique opportunity for evaluating on an international scale, the evolution of the phenomena which affect mortality rates

CHEMOTHERAPY OF TRACHOMA

Since shortly after their discovery, the sulfonamides have been used successfully in the treatment of trachoma, today they occupy a leading place in the chemotherapy of this disease. However the antibiotics are becoming increasingly important the use of aureomycin and chloromycetin in particular, has recently been the object of some very interesting work.

What is the place to be assigned today to each of the therapeutic means at the disposal of the ophthalmologist? By what criteria is he to be guided in his choice? To attempt to answer these questions Dr M J Freyche acting Chief of the Epidemiological Information Section of WHO, has just published in the Bulletin of the World Health Organization? a general study of the treatment of trachoma by sulfonamides and antibiotics, basing his article on the abundant literature which has appeared on this subject

Even though sulfonamide therapy alone may not effect the absolute cure which certain medical men have claimed it does make possible the control of infectious conjunctivities which provides a favourable ground for trachoma thus the risk of contagion is reduced. This prophylactic action together with clinical improvements is sufficient to justify the use of sulfonamide therapy in the absence of a truly specific remedy. However the sulfonamides are not always innocuous as is proved by the cases of intolerance which demand a temporary suspension of the treatment or its discontinuance. One of the disadvantages of the sulfonamides is that the dosage which gives the best results in the treatment of trachomin—weak doses administered over a long period—is also the dosage which causes the most trouble. Nevertheless provided certain precautions are taken it is now possible to carry out mass treatment of trachoma by sulfonamides if medical staff and well equipped laboratories are available.

The author points out however that in spite of the numerous successes recorded there are also frequent failures. If the disappearance of hyper

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plastic conjunctival lesions is to be taken as the criterion of cure it must be admitted that in 30% to 40% of cases these lesions are only slightly if at all modified by the treatment

After having given the indications advantages and drawbacks of local and oral administration of the sulfonamides Dr Freyche describes their mode of action which is still the subject of much discussion. Some authors consider that these drugs have only a bacteriostatic action on the conjunctival flora and not a specific action on the virus. Clinical observations and experiments on the mouse on the other hand would seem to prove that the sulfonamides act in reality on the etiological agent of trachoma Recent progress in the culture of the virus may perhaps soon provide the solution to this problem.

The second part of Dr Freyche's study is devoted to the antibotics of commercially prepared antibiotics have been tried in the treatment of trachoma. The results obtained by various workers with tyrothricin are not in agreement. This antibiotic does not appear to be a specifically therapeutic agent but is a good local antiseptic. Gramedin's has been employed with some success particularly by Russian authors. Penculin unlike the previou ly mentioned substances may provoke considerable allergy. On account of the very frequent doses which must be given it is not suitable for mass treatment of the disease and it also may be considered more as an aurhary drug. Streptomyenic which has the disadvantage of being touc and which has little effect on the virus is a therapeutic agent of secondary value only. Bacturaen does not yet appear to have been tried

Aureomycin and chloromycetin are of particular interest. The former has been used with some success in Italy Portugal Uganda and the USA. The observations with regard to it are still too limited however to permit drawing definite conclusions. Because of its action against certain viruses and rickettisioses hopes have been russed with regard to chloromycetin Encouraging experiments have been reported some of which demonstrate that chloromycetin administrated orally acts against trachoma. This fact if confirmed will be of consulerable importance.

In discussing the value of the observations assembled to date Dr Freyche indicates the main lines of the therapy which ophthalmologists will have to adopt according to the facilities available to them (staff laboratory hospital). A table drawn up in accordance with Bietti's data summarizes present knowledge concerning the action of chemical agents and antibiotics in the treatment of trachoma.

EPIDEMIOLOGY OF O FEVER

Since the discovery of Q fever by Derrick in 1935, the study of this disease has progressed situsfactorily in spite of its complex nature. In an article published in the Bulletin of the World Health Organization, 1 Dr M M Sidky former medical officer of the Epidemiological Studies Section of WHO, distinguishes three distinct phases in the history of Q fever, corresponding to the epidemiological manifestations of the disease in Australia, the USA, and the Mediterranean area.

Australia

In 1935 there were a number of cases of fever among the personnel in a meat works in Brisbine (Queensland) Derrick after studying the infection came to the conclusion that it constituted an undentified noso logical entity and proposed that it be called Q fever. Symptoms of the disease were headriche and comparatively slow pulse and it differed from other fevers in that there was no characteristic evanthem? Guinea pigs injected with the blood or urine of patients were receptive to the infection. Later, Burnet and Freeman succeeded in isolating rickettsial bodies in the spleen of mice inoculated with the liver of infected guinea pigs. In addition specimens of scrum from a patient showed an increase in agglutinating titre with a rickettsial suspension. These two findings seemed conclusive evidence of the ethological role of the rickettsia, and the causative organism was named Ricketissa burnets.

Since the original epidemic had affected every occupational group in a ment works, the source of infection was sought in livestock and its parisites. Research reveiled the existence in the first place of a cycle of infection of which the bandicoot and other wild animals are the reservoir and certain ticks—Ixod.s holocyclus for example—the vector. Cattle harbour ticks and may be infected by bites. Infection may be transmitted to man directly by tick bites but it is generally produced by contact with the tissues and organic fluids of the cattle or by inhalation of dust made of tick exercia.

USA

While in Australia clinical studies were made before the search for vectors began in the USA the pathogenic agent was discovered before cases of fever were observed in fact it was in the laboratory that rickettisme were isolated from ticks. The study of these rickettisme showed that they

were closely related to those discovered in Australia and for this reason the name of *R burneti* subsp diaporica was given to them. Most of the cases of fever occurred among laboratory workers among whom the infection was probably caused by inhalation of infected dust. Frequent pulmonary complications were observed.

Mediterranean Area

In the Mediterranean region Q fever which was characterized there also by pulmonary complications was first discovered in the armed forces lavestigation showed that a disease previously classified as alypical pneumonia or "Balkangrippe was in reality Q fever The etiological agent R burnets, was not isolated until 1945 it was not possible however to determine with certainty the origin of the infection

Recent Outbreaks

Q fever has appeared in various parts of the world during recent years cases break out not only in laboratories abattoris and meat works but also in dairies. Milk would therefore seem to constitute a new source of infection. In fact it has recently been demonstrated that the disease may be transmitted without intervention of parasites by infected cows or reasts milk.

BILHARZIASIS IN THE PACIFIC

Bilharziasis is one of the most widespread diseases in the world. In particular, it is endemic in the coastal areas and islands of the Pacific there are 33 000 000 cases in China 174 000 in Ipan 250 000 in the Philippines and 1 000 in Celebes. These estimates are given by Dr Willard II Wright. Chief Laboratory of Tropical Diseases. Misconolingual Institute National Institutes of Health Bethesda. Md. USA in an article which recently appeared in the Bulletin of the World Health Organ atton. The author gives in tabular form data on the number of infected persons in the various districts of those countries where the diesses is prevalent.

Despite its high incidence the importance of bilharziasis as a public health problem has not been sufficiently appreciated. It is frequently overlooked because of the similarity of its symptoms to those of other

diseases, it is often masked by certain other diseases, such as dysentery or nutritional deficiences

The US armed forces stationed on Leyte in 1944 did not escape scathed 1,700 cases and two deaths were recorded. The cost of treand hospitalization amounted to \$3,000,000, not to mention losses due incapacitation.

Among native populations, repeated infection gives the disease chronic form. Weakened by multiple lesions of the digestive tract, path often die from intercurrent infections.

The snails which act as intermediate hosts for the parasite have a described under many different names. However, it would seem that all belong to a single genus Oncomelania which includes several and subspecies. Dr Wright's article includes a table giving the names of these snails, the countries where they are found the auth describing them, and the corresponding bibliographical references

The last part of Dr Wright's study deals with the control of bilinarzias. This raises complex problems since in each region agricultural methoc economic conditions and the hibits of the people-must be taken account. In almost all endemic zones, bilinarziasis is predominantly disease associated with rice farming. The use of human excreta for fertilizing the soil contributes to maintaining the infection in China and perhaps in certain parts of Japan. It seems unlikely, however, that these could be altered. In the Philippines the custom of washing clothes bathing in infected water is an important factor in the transmission of a disease. In Japan animals which harbour the parasite (horses goats dogs various rodents) play some part in spreading infection. according to certain authors it is possible that oxen and buffulo also help to spread the disease.

There are various methods of control including the destruction of schistosome ova in night soil the removal of vegetation from the binks of water-courses and the treatment of infected individuals. The author summarizes the results obtained in Japan with these methods and concludes by stressing the efficacy of the procedure he considers to be the best, namely the destruction of snails by chemical means. Naturally this operation is not easy everywhere since the ecology of the snails varies according to the region nevertheless research should be aimed in this direction. Two recently discovered compounds dinitro α cyclohevylphenol and one of its derivatives have proved to be very effective not only against snails but also against eggs and cercitiae. These compounds are very expensive, however and intensive efforts should be made to find a low priced chemical which is not dangerous for man. According to the author, the solution to the problem of bilharzianis must be sought in this direction.

PLAGUE CONTROL IN TARANTO, ITALY, IN 1945

After a respite of about half a century plague reappeared at Taranto in September 1945-a time when the health service of the port was disorganized by war. The administration of some ports was in allied military hands and that of others had been handed back to the civil authorities who were themselves in the course of reorganization after the collapse of the former regime. Under such conditions an epidemic might have had very grave consequences. When the first case of plague appeared the British Army was using the port of Taranto for the evacuation of troops and equipment. During this period sanitary measures were applied by the military services. Later control was handed back to the civil administration and at the same time the Health Division of UNRRA was charged with carrying on the active functions of epidemic control

In an article which has just appeared in the Bulletin of the World Health Organ atton 1 K H Schulz formerly of the Malaria Section of WHO describes the course of the epidemic and the deratting campaign which was immediately undertaken

Twenty nine cases of plague were reported between 6 September and 29 November 1945 and there were 15 deaths. The disease occurred in both its bubonic and septicaemic forms the latter being 100% fatal Seven of the 29 persons affected had been vaccinated either two eight ten or thirteen days before the appearance of the disease. Three of these vac cinated persons died

The exact source of infection was never discovered. It is possible that plague had existed for a considerable time in a latent epizootic state in the dock area of the naval arsenal Rags piled up in a shed in the arsenal were believed responsible since the first cases were observed among persons who had worked nearby

The first measures taken by the British Army medical services consisted of cleaning the suspect shed DDT spraying and deratting by means of baits poisoned with barium carbonate or red squill onion A DDT zone was laid down around the danger area spraying extending to a depth of two or three blocks and DDT dusting centres were installed in neighbouring districts These measures were followed by a general campaign against rodents undertaken with the collaboration of UNRRA

The author describes in detail the three cycles of the deratting campaign -carried out by means of baits containing zinc phosphide and arsenious oude-which lasted until the spring of 1946. The whole of the town and port of Taranto was covered an area of 7 square kilometres with a popula tion of about 185 000 More than 5 000 rats were destroyed none of the 300 rodents examined was carrying plague bacilli

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In concluding his article the author suggests that this success campaign might well serve as a model for antirodent campaigns to undertaken throughout Italy, particularly in the ports

DDT AND SANDFLIES

Anti anopheline campaigns using residual DDT have resulted in t destruction of other insects which are intermediate hosts or vectors of human parasites. It has been noticed for several years in Greece that the number of sandflies-which transmit sandfly fever and leishmaniasisconsiderably smaller after spraying Mr Marshall Hertig of the Gorga Memorial Laboratory, Panama took part in a survey organized in Greece by the Interim Commission of the World Health Organization and th WHO mission in 1948 to determine the effect on sandflies of DDT sprayin campaigns against mosquitos. In an article in the Bulletin of the World Health Organization 1 he has summarized the results of observations mad in Athens and its suburbs in certain villages of Attica and in Canea Crete His investigations also extended to Italy and Sicily Mr Herti concludes that spraying the interiors of dwellings with residual DD7 ensures immediate and almost complete protection against sandflies By repeating the spraying every year at the time these insects hatch their number can be reduced almost to the vanishing point

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DETERMINATION OF SMALL AMOUNTS OF RESIDUAL DDT

In a recent article in the Bulletin of the World Health Organization 1 Professor Maria E Alessandrini of the Istituto Superiore di Sanità Rome describes a rapid and fairly sensitive method for the detection and deter mination of small amounts of DDT on sprayed surfaces. This colorimetric method which is a modification of that devised by Schechter, Solovay Hayes & Haller can be easily used even in the field and with limited equip ment. By means of a colour scale amounts of DDT between 0 0001 g and 0 005 g can be directly estimated according to the colourations obtained. The author explains the advantages and limitations of the method and

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summanzes observations made during the thousands of analyses carried out over two years in various parts of Italy especially in Sardinia the Pontine marshes and Sicily

SFRODIAGNOSIS OF THE TYPHUS GROUP OF FEVERS

Standardization of Tests

Thanks to recent methods for the culture of rickettsiae on the chick embryo suspensions suitable for the serological diagnosis of infections of the typhus fever group are now available. In this way it has been possible to distinguish between different types of fevers belonging to this group which give analogous reactions to the Protess OX antigens and which cooseque nily cannot be differentiated by the Weil Felix test. At the same time tests carried out with rickettsial suspensions have their limitations and may lead to erroneous conclusions. It would therefore appear desirable to combine the use of these two sets of tests and to employ each of them according to its relative usefulness.

These considerations introduce a note submitted to the WHO Expert Committee on Biological Standardization by Dr A Felix Director of the Central Enteric Reference Laboratory and Bureau London and published in the Bulletin of the World Health Organi attor.\(^1\) The author reviews the advantages and disadvantages of the two types of antigens (rickettisate and strains of Proteus OV). He comes to the conclusion that contrary to the opinion of certain workers rickettisal suspensions cannot at present leplace Proteus OX antigens for carrying out routine tests. They are destined to supplement rather than to supplant them. Furthermore it is not correct to vay that tests made with rickettisate are specific whereas those employing Proteus OX are not

On various sides the need has ansen for standardizing the materials and riethods used in serological tests for the diagnosis of the rickettsiae whether of the complement fixation rickettsial agglutination or Weil Felix type. The standardization of these methods presupposes the adoption of "international serior standards."

In the second part of his note Dr Felix examines the question of inter national serum standards for Proteus OX againstion tests. The author suggests the adoption of "standard agalutinating sera for the against hons occurring in the presence of Proteus OX19 Proteus OX2 and Proteus."

⁸ H Norld HI & O & 1950 2 637

OXK. These sera could be prepared on a large scale in horses, using as immunizing material the alkali stable. O antigens of the corresponding *Proteus* X strains

DIAGNOSIS OF TYPHOID AND PARATYPHOID A AND B FEVERS

Standardization of Agglutination Tests

The agglutination tests employed in the diagnosis of typhoid and paratyphoid fevers will continue to be used for a very long time despite the advances made in other respects in techniques for isolating the bacilli Moreover, these tests remain indispensable in epidemiological research for the detection of inapparent infections and of germ-carriers. Thus the question of their standardization is still of considerable importance at the present time.

In an article published in the Bulletin of the World Health Organization, Dr A Felix discusses various methods used for carrying out these tests the their traces the history of the standardization of the Vi agglutination test by means of the provisional standard serum and stresses the success of this method. In the last part of his article the author approaches the problem of establishing serum standards for the H, O, and Vi agglutination tests. It would probably be possible to standardize the H and O agglutination tests in a manner analogous to that used for the Vi agglutination tests in a manner analogous to that used for the Vi agglutination tests in the first step would consist of adopting internitional serum standards for the determination of the H and O agglutination. Standard agglutinating for the determination of the H and O agglutination. Standard agglutinating has perfectly agglutination paratyphoid B non specific H agglutination , typhoid O agglutination paratyphoid A O agglutination , paratyphoid B O agglutination , typhoid Vi agglutination

Co operative research under the auspices of WHO should then make it possible to find out by examination of these eight sera in laboratories all over the world if they are suitable for use as international standards

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STANDARDIZATION OF LIVER EXTRACTS

The increasing use of preparations based on liver extracts for the treatment of permicious anaemia necessitates the setting up of an international reference standard for assaying the potency of these products. The WHO Expert Commuttee on Biological Standardization dealt with this question during its third session. A note on this subject submitted to the committee by Dr E Lester Smith has just been published in the Bulletin of the World Health Organization.

The author mentions the three methods which can be used for the assaying of liver extracts the clinical method for determining the potency of the preparations in the patient the biological method making use of an experimental animal and finally the microbiological method which as it is simpler and more accurate is tending to supplant the preceding ones.

The microbiological method consists in evaluating the potency of various substances by the action they have on cultures of micro organisms for the assay of liver extracts Dr Smith suggests the technique applied in the case of vitamin B₁₂ Laciobacillus lacius Dorner being chosen as the lest organism. The author gives some details regarding this technique

The microbiological method may readily be employed in routine practice. However some reservations must be made as concerns the ripretition of the results. The majority of the micro organisms utilized teart not only to vitamin B₁, but also to other growth factors which may be present in liver extracts. This becomes of particular importance in the case of organisms which are essistive to the action of thymidine or to that of other substances which are clinically inactive. Research has been under taken with the aim of modifying this technique and introducing chromato graphy on paper before the microbiological test.

The second part of the note deals with the problem of the standard pretation. The author favours the adoption of pure crystaline vitamin B₁₁ as standard in preference to liver extracts themselves. This choice would have the advantage among others of making it possible to express the potency of the standard preparation as a weight of crystaline vitamin B₁₁ thus avoiding the use of arbitrary units. However certain difficulties after all present only extremely small quantities of vitamin B₁₂ are available and the stability of this substance still needs to be tested. The author suggests means of overcoming these two disadvantages.

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ANTIGENS IN SERODIAGNOSIS OF SYPHILIS

The discovery of cardiolipin antigens has given rise to renewed interest in serodiagnostic tests for syphilis. Comparison of the new with the old antigens has formed the subject of numerous papers, and several workers have recently shown the superiority of the new techniques. The results of investigations carried out by Dr A Bekierkunst of the Dermato venereological Clinic University of Wroclaw (Poland) and Dr F Milgrom of the Institute of Medical Microbiology, Warsaw, who have compared the complement fixation reaction using cardiolipin antigens, with the Kahn reaction have just been published in the Bulletin of the World Health Organization.

The two tests were applied to 260 sera taken from 240 patients suffering from syphilis and from 20 cases of suspected syphilis. The complement fixation test was positive in 88.1% of cases while the Kahn test gave 86.2% positive results. These figures which are confirmed by other results lead the authors to the conclusion that the complement fixation test utilizing cardiolipin antigen is at least as sensitive and specific as the Kahn test.

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PSYCHIATRIC EXAMINATION OF OFFENDERS

The conviction of an offender is intended to exercise retributive justice, to deter others from committing crimes and to reform the criminal himself Does it actually nehicle these time? It is difficult to say. The number of crimes at present taking place in the world does not justify the belief that the methods of criminal justice employed have any very considerable preventive influence nor that present methods for the treatment of crime bring about the reformation of the criminal. The development of medical science sociology and psychology during the first half of the twentieth century has made a significant contribution to the better understanding of offenders and their acts. Intuition and empiricism are gradually being replaced among jurists by the application of scientific principles. However because of the alrudy crowded curricula of law schools, judges, and other persons responsible for the enforcement of criminal laws are without adequate training in the medical and behaviourists sciences.

These are the preliminary observations made by Dr M S Guttmacher Chief Medical Officer of the Supreme Bench of Baltimore Md USA in

an article recently published in the Bulletin of the World Health Organiza
tion. The author describes a plan for setting up scientific legal institutes
for the scientific examination of offenders prior to sentence

Such a scientific legal institute would comprise three divisions social psychiatric and medical. The social division would be responsible for compling social medical records of the case histories of the offenders such records would be placed at the disposal of the authorities concerned Furthermore this division could provide through social workers a super worsy and aid service capable of playing an important part in preventing critics. The psychiatric division would be concerned particularly with the examination of young offenders and of accused or convicted persons at the request of the court jury public prosecutor or counse! The medical division would have the task of giving advice on medical problems (examination of injuries determination of blood groups autopsies etc.) to the court and its agents.

After describing the functions of these three divisions in detail the author concludes by stressing that one of the duties of the scientific legal institute would be training legal personnel in the application of social and medical sciences to criminal justice. Dr Guttmacher believes that despite the variety of legal systems throughout the world the fundamental principles which he recommends could after suitable adaptation to the systems of different countries, be widely applied.

The paper which has been briefly summarized here was presented to the World Health Organization in the form of a report entitled. Plan for the scientific examination of offenders prior to sentence for sub-mission to the Social Commission of the United Nations. The Evpert Committee on Mental Health examined this report during its first session and is in entire agreement with the general principles put forward in this monocal.

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Reports from WHO Fellows

Many of the letters and reports received from WHO Fellows has been of such interest that they deserve to be read by a wider public Tilly, demonstrate more vividly than a series of facts and figures both character of the fellowship programme and the response of the Fell themselves. Selections from these reports have therefore been published from time to time but it must be emphasized that the opinions expressed are those of the Fellows.

Mexican National Institute of Cardiology

De H. Chevalner médecun-assistant des hôpitane de Paris and formerls chief of the cardiology chinic at the Faculty of Medicine has been studying the working methods of the National Institute of Cardiology in Mexico and sisting asceral cardiology centres in the USA. Dr Chevalner discribes in his report the organi alion of the Institute directed by Professor I. Chane, the activities of which include ascentific cardiological research as well as chinical with and teaching.

The Mexican National Institute of Cardiology examines more than 25 000 people annually. It has a hospital section of 120 beds divided among four separate services (men women children surgery). Although its principal activities are concerned with the diagnosis and treatment of cardiovascular diseases the Institution is not a centre of seen tife research and teaching. The latter covers complete courses of preparatory study for the diploma of Doctor in cardiology and also separate videnced courses of short duration is such subjects as electrocardiography. The Institute possesses considerable technical equipment for the conduct of these courses and comprises the following departments electrocardiography and anjoin and applications of the section of the conductor of these courses and comprises the following departments electrocardiography and anjoin properties of the control of the conductors two internees three technicans and a secretary. The department of experimental physiology which is part of the Institute although housed in a separate building includes twice research workers. Approximately one third of the annual budget of the Institute is allocated to research workers.

Dr. Chevaler studied the organization of the Institute as a whol, and in particular that of the modern electrocardiography section. A course in this subject includes the retical and practical training (reading of hundreds of electrocardiographic recordings) and experimental work. Dr. Chevalier took part especially in experimental research on septial activation coronary filebulists and septic pericardists in the dog. He also observed experiments with a new cardiotonic drug, and with techniques for the exact calculation of the refractory period in autricular and outrieuals and other forms of myo, ardiu.

Members of all departments meet together periodically for the discussion of problems sessions are held on chinical anatomy and haemodynamics and on surgical medicine —at which the implications of cardiovascular surgery are studied.

In the USA Dr Chevalier visited the cardiology laboratory of Tulane Medical School and the physiology laboratorics of Louisiana University New Orleans the cardiology department of Bellevue Hospital New York University and Dr Paul D White's department at the Massachusetts General Hospital Boston



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the joint authors of WHO and the American Unitarian Service C minimals. The t are give courses throughout the country and demonstrated some of the t is section, we mead the authors and surgery. The team provided medical equipment and literature t, E(t) is sentified centres and medical schools.

Provision had been made in 1950 for supplies, equipment, and staff first both in

Provision had been made in 1950 for supplies, equipment, and staff first with in training centre in Wroclaw and a venereal disease control training centre in Warsaw

Manual for Tuberculosis Control Workers

A Manual of Information for Workers of Twerral six C and I Cen ris Chan habeen prepared by WHO consultants in China, and copies in the Enclish and Chines, languares are now available. This manual gives a comprehensive a count of mod m methods adopted in the control of tuberculosis, with particular ref tence to mass chost surveys and BCO vaccination and deals in detail with the responsibility and activity of the tuberculosis control worker. It will be specially useful to workers in countries with undeveloped control merculaments.

The manual was prepared by Dr I M Lourie Tuberculosis Consultant and Miss A L Eggestein Nurse Consultant both formerly with the WHO mission in China

Spanish and French Editions of the Manual of the International Statistical Classification of Diseases Injuries and Causes of Death

Volume 1 of the Manual de la Classificación Estadisti a latin macional di Fiferene (1) et Trammatismos y Causas de Definación is now available. This is the first publicate it is list din Spanish and represents a significant contribution to the improvement of tomparability of medical attaistics especially since the Manual will be used as such by many of the Spanish speaking countries rather than merely as a basis for the prepiration of national manuals

Volume 1 of the Manuel de Classement Statistique Internati nal d's Mal i 1 s Trau matismes et Causes de Deces has also been published

The Manual provides for the first time a single, list for coding both discases and causes of death and in addition includes an extensive Tabular List of Inclusions with it gives disprostic terms defining the content of each category of the list and a comprehensive Alphabetical Index. Also included are WHO Regulations No 1 regarding nome culture with respect to diseases and causes of death as a adopted by the First World Health

Assembly and put into force on 1 January 1950
Volume 1 of the Engish edition of the Alanual was published in 1948 and Volume
the alphabetical index appeared in 1949 The two volumes of the Manual are available
at a price of \$6.00

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in public health administration. In 1943 he was appointed Directeur de 1x S. IAnnam and restored the health services which had been disorganized by boin and blockade and under conditions made difficult by lick of drugs and supplies dir the campaigns rigainst scrious epidemics of typhus and plique, in the Hutle Réj ion epidemic outbreaks of malaria. Interned in 1945 by the Japanese he organized services and campaigns to control cholicia and diphiliteria in the concentration of Hue. After the liberation he resumed his post of Directeur de la Santé de I but was later called to take over direction of the Service de la Santé publique du Commisseant de France.

Dr Doroll, has taken part in a number of missions in equatorril Africa. India. and Java. Since the end of the war he has participated in several international on food hygiene at Singipore. Baguio. Bangkok, and Rangoon. In 1950 he was a of the French delegation to the Third World Health Assembly.

Dr Dorolle is the author of a number of works on the pathology of tropical dicontagious diseases tropical spyhilis and the nervous and ecrebril complications epic logy rural sanitation forense medicine and food hygien, with special reference to Indochina area where he conducted the first systematic investigations on nutriti In recognition of these works. Dr Dorolle was elected to membership of the Société Pathologie evotique in Paris in 1936. He is also a corresponding member of the Ec française de Extramo Orient.

Dr Doroll, has received the decorations of the Légion d Honneur the Croix Guerre avec palme and the Médaille d argent des Epidémies in addition he high honours conferred upon him by the Governments of Cambodia Laos and Viet N

Poland Decides to Withdraw from WIIO

H E Julian Przybos Minister of Poland in Bern has informed Dr Brock, Chisho Director General of WHO of his Government's decision to withdraw from the W Health Organization

In his letter dated 15 August 1950, the Minister asserts that WHO has given of its lack of faith in the principles which should guide its work, as well as of its complet surrender to the imperialistic States, and in particular to the United States, and stat that the Government of the Republic of Polind declines to take any responsibility the orientation of the activities of WHO and for their submission to the imperialist policy of the powers preparing a new war.

As a war devastated country. Poland has received many forms of assistance "WHO A medical liaison officer was maintuned in Poland until the autumn of 1" to advise the national health administration and to arrange for WHO services." Polareced technical aid from WHO in its nationwide campaign against veneral diseases and was assisted in the organization of a tuberculosis control scheme. "WHO particip in the BCG vaccination campaign in Poland." A consultant visited Poland to advisorkers on striptomycin therapy and to work out a uniform scheme of reporting results and a consultant on x ray technology conducted demonstrations and assisted in the publication of a manual on x ray technology conducted demonstrations and assisted in the publication of a manual on x ray technology. Of a total of 800 fellowships awarded by WHO 119 were received by Polish physicians. \$26,000 was made avuilable for purpose for 1950.

Other assistance included the supply of medical literatur. So far Poland has rec ived 704 medical books 95 microfilms and subscriptions or renewals to 241 periodicals A medical team composed of specialists from various countries visited Poland under

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which are harmful to the healthy psychoiogical development of individuals So far so good WHO at least seems

to recognise the place and importance of the medical officer of health. But when the riport goes on to consider the practical steps movined a much less sanisfactory prototes a presented. What a fair all is mental health? WHO admits that there is no constant measure of it because it are with the cultural patterns of racial and rational groups and among different No attempt is made brete to indicate a base design for beathly rental living for Everyman and the new form the same prototes and the pr

general to attain content and off in or sometimes happiness and joy

The storifie with the afturations to the storifie with the afturations of the United Nations 1 is all they are predominantly West. I have so little use for the traditional is 1 of the West Indeed the patturn of son ut and attitude, to the world that I all a integration of personality are to be found in recognisable, form everywhere their writness borne by the philosophers and prophets of all peoples. Let WHO fairly tackle the problem of what are the essen also of mental health and then we shall be better able to devise the administrative procedures necessary to foster their growth

Views on WHO

Challenge of Malnutration

An editorial in the FAO European Bul letin Food and Agriculture (1949 2 79) emphasizes the importance of nutrition in the WHO programme and the need for a close co operation between these two specialized agencies of the United Nations

"While the great need for curative treatment is today still a tacit admission of the failure so far in many respects of Preventive Medicine it has been refreshing to observe how WHO as the torchbearer for the coming New Order in Medicine is not only laving more and more emphasis on Prevention but feels that even Prevention is still too negative a view and that public health services should become promotive (nothing less than that) and that as soon as the exceptionally bad disease areas in the world are under control the necessary shift of emphasis from disease to health and the factors that promote it will readily come to pass

As FAO's strongest and most neces such as FAO's strongest and most neces such as the field of nutrition and food production FAO would like to believe that in WHO's very appropriate definition of health as a state of complete physical mental and social well being and not merely the absence of disease or infirmity the need for proper nutrition vs. a basic conditional factor to it all was so strongly implied that it required no special mention that Nutrition the stone discarded by the builders will in the New Order in Medicine become an important foundation stone

Jointly it is hoped our two Organiza tions will see in our two most important enemies Malnutrition and Disease not the struggle but a CHALLENGE to prove to the world that a programme of better nutrition is less costly than one involving the dealing with people who are wask or diseased unhappy and unproductive that reckoned in terms of low vitality impaired efficiency actual sickness and hospitaliza toon malnutrition is a tax which no nation on earth—not even the United Nations—can go on paying

Mental Health

In connexion with the first report of the WHO Expert Committee on Mental Health the Medical Officer London (1950 83 249) comments

We are increasingly hearing about mental health in these days. One reason for it may be the greater incidence or at least ascertainment of frank psychiatric Another may be the emergence of the concept of psychosomatic medicine while yet a third and perhaps the most important is the recognition that human society both in this country and generally is in a profoundly unstable state the medical officer of health is involved in this question is undisputed though where he stands relative to it is more obscure His statutory duties are limited to ascertain ment and disposal his permissive power to the care and after-care of the psychiatric sick or convalescent within the community while his wider interest is with the prevention of mental as of organic disease and the preservation of total health. The subject is complex and difficult

The World Health Organisation has rightly enough entered this field and the Report on the First Session of the Expert Committee on Mental Health lies before The opinion here unequivocally expressed is that preventive work is in urrent need of development and extension and that the medical officer of health is the proper person to undertake it as an ordinary part of his duties If necessary he should receive further training to equip him to provide in the words of the report the generalship for pre ventive mental health work control a team of which the most valued member is likely to be the public health nurse another addition he may reflect to the already onerous burden of the health visitor. The suggestion is not that he bu turned into a psychiatrist but rather that he should concern himself to quote the report again with the recognition and eradication of factors in the community

which are harmful to the healthy psychological development of individuals

So far so good WHO at Last seems to recognise the place and importance of the medical officer of health. But when the report goes on to consider the practical steps stooled a much less satisfactory petture is presented. What after all is remail bealth? WHO admits that there is no constant measure of it because it was the constant measure of the because it was the control of the

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WORLD HEALTH ORGANIZATION TECHNICAL REPORT SERIES

(Separate editions in English and in French)

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2 Expert Committee on Biological Standardization report on the

3 Expert Committee on Biological Standardization report of the

Expert Committee on Health Statistics report on the first session

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Expert Committee on Tuberculosis report on the fourth session

4 Expert Committee on Insecticides report on the first session

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Subcommittee on Fat Soluble Vitamins

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RECENT AND FORTHCOMING METTINGS

1950

4 11 October	WHO Expert Committee on Insecticides second session Geneva
9 15 October	WHO Expert Committee on International Epidemiology and Qua- rantine third session. Geneva
30 October 4 November	WHO Expert Committee on the Unification of Pharmacopoeias seventh session. Geneva.
1.6 November	WHO Expert Committee on International Epidemiology and Qua- rantine Legal Subcommittee third session. Geneva
6-7 November	WHO Expert Committee on the Unification of Pharmaropoxi Subcommittee on Non-Proprietary Names first session Geneva
611 November	WHO Expert Committee on Biological Standardization fourth session Geneva
6-14 November	WHO/FAO Expert Advisory Panel on Brucellosis first sexion Washington
27 November 9 December	Commission for Technical Co operation in Africa WHO Malina Conference in Equatorial Africa Kampali Ueinda
December	Meeting of Pyperts of WHO Advisory Panel on Public Health Administration. Geneva
11 16 December	WHO Fypert Committee on Malaria fourth session kampala Uganda
11 16 December	WHO Expert Committee on Mental Health Subcommittee on Alcoholism first segsion Geneva
11 16 December	WHO/FAO Consultant Group on Boxine Tuberculosis and Other Zoonoses first session Geneva
1951	
22 January	WHO Executive Board seventh session Geneva
April tentatively	WHO Expert Committee on International Epidemiology and Qua- rantine fourth session. Geneva
Aprıl	WHO Expert Committee on the Unification of Pharmacopoeias eighth session Geneva
Aprıl	Joint FAO WHO Expert Committee on Nutrition second ession Rome
9 April	WHO Special Committee to consider the Draft International Sanitars Regulations prepared by the Expert Committee on International Epidemiology and Quarantine Geneva
April or May tentatively	WHO Expert Committee on International Epidemiology and Quarantine Legal Subcommittee fourth session. Geneva
7 May	Fourth World Health Assembly Geneva

WHO TUBERCULOSIS RESEARCH OFFICE, COPENHAGEN

The WIO Tuberculosis Research Office was established in February 1949 to study the problems of tuberculosis particularly in connexion with mass BCG vaccination. During the past 20 months its work has been extended to many countries participating in the BCG campaign and in a number of countries research projects have been developed in co-operation with mational of local health organizations. Special mention should be made of the close co-operation with the Joint Enterprise for the international BCG-campaign the Statens Seruminstitut and the National Health Service of Denmark.

The activities of the Research Office can be divided into four major categories

 Direction of statistical work of the BCG campaign and preparation of material for documentation

From the beginning of the campaign it was recognized that there would be a most unusual opportunity for worldwide collection of useful information on the training and that a statistical report of the vaccination and the results of tuberculin testing in each country would be best prepared by a central office as a permanent record for international comparison and follow up. A statistical section for the BCG campaign was set up in the Research Office to perform the following functions.

- (a) Direction and supervision of the statistical work of the campaign in individual countries. A detailed statistical manual has been issued for use in the field.
- (b) Training of statisticians for field assignments and training and supervision of national and local statistical personnel
- (c) Preparation of monthly annual and final reports for individual countries. The final report for the campaign in Czechosłowskia was recently published and the preparation of several others is well under way. Tuber culti sending they curve by age were issued for 12 countries in the campaign

By the end of September 1950 the Research Office received from the field detailed statistics on tuberculin testing of 16.289 566 persons and accumation of 8 136.857 non reactors representing respectively about 55% of the tested and 60% of the succinated in the campaign At the time of writing this report statistications or trained statistical supervisors were working in Austria Ecuador Egypt Greece india Merico and Syria

of writing this report statisticalis of training statistical supervivors were working in Austria Evador Egypt Greece India Mexico and Syria In February 1950 a special statistical office was set up in Vienna in co operation with the Austrian Ministry of Social Welfare for collection of statistical data from the campaign. To date 350 000 vaccination records

have been transferred onto punch cards Statistics on tuberculin testing and vaccination, including post vaccination retesting, are being tabulated

Lately, arrangements for making a sampling survey of post vaccination allergy in Greece were made Retesting by specially trained teams has begun in the schools in Athens Emphasis is placed on determining the duration of tuberculin allergy and variations which may have resulted from different lots of BCG used

2 Evaluation of effect of mass BCG vaccination on prevention of tuberculosis

The Research Office has, from the start, stressed the importance of a controlled study in the evaluation of the effect of BCG vaccination on a population of a sufficient size, in which the non reactors are vaccinated alternately at random, it proposed that such a study be undertaken along with the present BCG programme. So far this idea has not met with success because health authorities find it difficult to subject populations to such experiments.

An evaluation project of a different kind has been developed in Finland Punch card copies of about one million vaccination records have been made to form a national roster. This will permit direct matching of current death reports from the National Office of Vital Statistics, and observed tuberculosis mortality of the vaccinated can be compared with that of the natural reactors to tuberculin and with expected trends of tuberculosis mortality in the general population based on pre vaccination experiences. Supplementing this central roster a detailed analysis has been made of the Finnish mortality from tuberculosis, in order to work out forecasts for comparison with observed mortality rates in years to come

Finland has certain special features which are favourable for the project in question. Vaccination was quite complete and was carried out in a relatively short period of time, about one and a half years in 1948 1949. There is a strong centralized organization for tuberculosis control, and its leaders are interested in international collaboration in tuberculosis research. The Finnish tuberculosis mortality is compartively high—130 per 100 000—and mortality statistics are available for a long period of years. If the effect of mass BCG vaccination on tuberculosis mortality can be demonstrated at all without a comparable control group. It should be possible under the conditions obtaining in Finland.

A similar roster is being set up in Denmark, at the request of the Danish National Health Service for the National Tuberculosis Mass Campaign, which aims at a complete examination of a population of 1,400 000 between the ages of 1 6 and 15 34 by tuberculin testing and vaccination as well as x ray examination of adolescents and adults Denmark has the lowest mortality in tuberculosis among nations 19 per 100 000 in 1949. Its tuberculosis control is outstanding. Local tuberculosis dispensaries are usually under the charge of specialists of high standard. Diagnosis is

FIG 1 TUBERCULIN TESTING IN INDIA



Dr C E Palmer Director of the WHO Tuberculosis Research Office performing a tuberculin test during his visit to India

proved by bacteriological findings a single national laboratory being responsible for the work Registration of tuberculosis morbidity and mortality is as complete as is practically possible. The country is small and a national roster of the tuberculin tested and the vaccinated is of reasonable manageability. The programme is especially suitable for the study of the effect of the BCG vaccination on tuberculosis morbidity.

3 Studies on BCG vaccine and techniques of tuberculin testing and vaccination

Since November 1949 a series of investigations has been carried out as a co operative undertaking with the Joint Enterprise and the Danish Statens Seruminstitut to develop methods for field study and comparison of BCG vaccines and to chert the effects of certain factors on the allergy producing quality of the vaccine. In these studies great care has been producing quality of the vaccine. In these studies great care has been frected towards securing adequate comparability of test subjects uniform ity of techniques and procedures accuracy of observation and measurement and avoidance of personal bias. The test individuals are exclusively school and avoidance of personal bias. The test individuals are exclusively school children of 7.14 years of age. living in rural distincts where the prevalence

of tuberculous infection is very low. Not only are uniform techniques and procedures maintained throughout these studies, but the same operations are performed as far as is practically possible by the same individuals. All viccines used are labelled in a code, and their identities are not known to the field stiff who do the testing and vaccination. Readings of tests are recorded by clerks so that the render has neither the necessity nor the opportunity to obtain any information on the individual record.

Results to date indicate that the age of the vaccine, the storage tem perature and, within the limits studied, the dosage of vaccine effect only slight differences in the allergy producing quality of the vaccine used Essentially all vaccinated children have become reactors 8 10 weeks after vaccination, so far as the usual criteria of the size of a positive reaction

are accepted

There are, however, small differences in the character of the reactions, which are strongest in children vaccinated with vaccine four times the standard strength and weakest in those receiving fractional strengths. The striking finding is that there is no significant decrease in the average size of reactions with the increasing age of vaccine up to 29 days, both with refrigerated vaccine and with vaccine stored at 20°C. Even storage at 37°C for five days did not disturb the effectiveness of the vaccine in producing tuberculin allergy.

Differences between vaccines from different production centres are apparent with respect to the total spectra of tuberculin sensitivity which are not only quantitative but qualitative as well. It seems that the size of the post vaccination tuberculin reaction differs less markedly for the different vaccines than the qualitative character of the induration they produce

So fir seven projects have been carried out on a total of about 15,000 children and the retesting of the last group will be made shortly The first of a series of papers from these studies has recently been published in the Bulletin of the World Health Organization.

As there is much need for more precise and quantitative methods for field standardization and comparison of tuberculins plans have been worked out for the development of such methodology through utilization of the facilities of the Danish national tuberculiosis campaign and the special vaccine studies. Pilot studies are also being planned to standardize a new lot of tuberculin for use in the international BCG campaign and for comparison with other tuberculins.

4 Special research in different areas and peoples

The study of the specificity of the tuberculin test and the significance of the non specific reactions is basic to many clinical and epidemiological

¹ R # Harld Hith Ore 1950 3 L

problems and to the proper performance of BCG vaccination. A special research team was in India for six months from September 1949, and has been in Egypt since April 1950 making observations on the tuberculin test with different antigens in varying dosages. About 40 000 persons have been steted and BCG vaccination of x ray examination, and post vaccination retesting have been carried out on selected groups.

A similar study has been made in Iceland in co operation with the ubscrubous control service in that country. Approximately 2 000 persons have been tested using avain BCG and other tuberculins. It is hoped that the work will be extended to include epidemiological studies on factors milbeneng the rapid decline in the incidence of tuberculosis where BCG vaccine has not been extensively used as a prophylactic.

A field station was established this spring in Madanapalle South India in co operation with the Union Mission Tuberculosis Sanatonium to study liberculosis in rural India and to investigate problems which have arisen in connection with the mass BCO vaccination being carried on in that country. In 1948 1949 the entire population of 14 000 in Madanapalle lown were x rayed tuberculosis and vaccinated. The present programme includes retesting and revaccination and extension of mass BCO saccination x raye examination and follow up in surrounding rural communities. In one area the examination of 4 000 persons was recently completed and basic information has been put on punch cards for labulation and analysis.

TUBERCULOSIS CONTROL

During its fifth session held in Geneva from 11 to 16 September 1950 the Expert Commuttee on Tuberculosis ¹ discussed in particular the role and responsibilities of the general hospital in the diagnosis and treatment of tuberculosis mass radiography the report of the WHO Tuberculosis Research Office in Copenhagen compulsory notification of tuberculosis and boune tuberculosis

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Role and Responsibilities of General Hospitals 2

General hospitals could make an important contribution to tuberculosis control by subjecting admissions outpatients, and hospital staff to radio graphic examination. It would thus be possible to detect unsuspected crises which might spread infection in the general service wards and among the unprotected hospital personnel. This method of case finding has thus far, not been used to any great extent. Recent inquiries in the USA have revealed that only about 247 of 4 539 general hospitals have adopted such routine chest examinations despite the fact that the effectiveness of this practice his been amply demonstrated. In a hospital in New York State for example, 74% (i.e., 7,187) of the patients were radiographed and 4% (i.e., 290) showed signs of tuberculosis. In the Chicago University dispensaries fluoroscopy of the chest has been routine practice since 1942, of 15,000 persons examined, 417% (i.e., 626) have shown tuberculous lesions. From these figures and from a previous study carried out in Chicago on 25,000 negroes, it has been estimated that in the USA 600,000 persons undergoing medical treatment for other complaints are suffering from undiagnosed, active tuberculosis

In most countries the number of beds in tuberculosis sanatoria and specialized hospitals is insufficient. This situation could be relieved by admitting cases of tuberculosis to general hospitals providing for them separate services in annexes special pavilions, etc. Priority of admission should be given to patients whose condition would respond rapidly to treatment such as pneumothorax or chemotherapy. Successful treatment, which would render these cases non infectious, would reduce the risk of the infection is spreading among other people. Having tuberculosis patients mould have an opportunity to learn the most modern methods of diagnosis and treatment, and their attention would be directed to a disease which too often remains undetected.

If tuberculosis pritients are admitted to general hospitals adequate measures must, of course be taken to protect the nursing staff and others who are in contact with them Regular radiographic examinations BCG vaccination and general prophylactic measures have already reduced considerably the risk of infection of hospitals the risks are no greater than in other comparable population groups

The Expert Committee on Tuberculosis recommended that the collaboration of general hospitals in detecting and treating tuberculosis be encouraged that the nursing and other staff be adequately protected against infection, and that cases discovered by hospitals be reported to the local health authorities so that contacts of the patients may be examined

[•] The paper considered by the committee w ii be published in a forther ming number of the B il iin of the Bo id Health Organization

Mass Radiography

Mass radiography serves two purposes first it permits case finding at an early stage in apparently healthy population groups and secondly it is a rapid method of evaluating tuberculosis morbidity in a certain area before drawing up a control programme. However radiographic examinations do not in themselves constitute a sufficient basis for diagnosis laboratory tests are necessary for confirmation. In fact cases of tuber culosis should not be reported to health authorities on the basis of x ray examination alone.

The committee emphasized that mass radiography is useful only if laboratory and treatment facilities are also available. It was of the opinion that in the underdeveloped countries it would be desirable to combine such examinations with tuberculin tests.

Research

The committee examined with much interest the report of the WHO Tuberculosis Research Office in Copenhagen It suggested that research be undertaken to re assess the value of the oral method of administering BCG Another subject for research one of some urgency because of the increasing need for a single pre vaccination tuberculin test is determining an appropriate test dose for this test At the meeting of the Joint UNICEF (Medical Subcommittee) and WHO Interim Commission (Subcommittee on Tuberculin Testing and BCG Vaccination) held in Paris in June 1948 3 a dose of 10 units of tuberculin (TU) for the final Mantoux test was recommended and a minimum of 6 mm diameter induration was set up as the criterion of a positive reaction The Expert Committee on Tuber culosis proposed that for the single test the dose be reduced to 5 TU and that the minimum diameter of induration indicating a positive reaction be fixed at 5 mm as observed three days after inoculation. In addition the committee thought it would be desirable to determine what dose of tuberculin should be administered in the surveys which are carried out to determine the incidence of tuberculous infection in a country

Compulsory Notification

Legislative measures concerning notification of tuberculosis vary considerably from country to country. In some countries notification of all forms of the disease is compulsory although not always strictly applied in other countries only pulmonary tuberculosis is subject to notification in still others notification is optional.

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There are often psychological and economic factors which make it difficult to ensure that compulsory notification is observed, especially in places where a feeling of shame is still associated with the disease. In countries where the central and local health administrations are as yet only slightly developed and where the number of doctors is insufficient, it would be useless to try and enforce compulsory notification. The committee thought, however, that, in spite of the difficulties encountered, compulsory notification has greatly increased the efficiency of control programmes in countries where it has actually been observed. It therefore recommended that countries which have not yet adopted this measure consider doing so, enlisting the collaboration of the medical profession in this effort. The committee was of the opinion that only doctors should be entitled to report the cases and that the notification should specify whether or not tubercle bacilli have been found in the patients sputum or body fluids.

Control of Bovine Tuberculosis

As a result of a resolution of the Third World Health Assembly,4 the committee discussed the question of bovine tuberculosis Except for the Scandinavian countries bovine tuberculosis is still a problem of major importance in the remaining northern, western, and some of the southern European countries. In these countries the infection of cattle varies between 20% and 60%, with dairy cattle being the most seriously affected Cattle in Eastern Europe are less subject to attack. It is mainly the herds in the vicinity of the large urban centres which are infected. On the basis of the information available, it would seem that the same applies to the Eastern Mediterranean area and Countral South America.

Eastern Mediterranean area, and Central South America Contact with infected cattle and consumption of food from such cattle involve risks of infection for man. It is now possible gradually to eliminate bowne tuberculosis thanks to various measures the application of which depends in part on the economic situation of the countries concerned Tuberculin tests followed by the slaughter or separation from the herd, of infected animals and vaccination with BCG or with the bacilli of murine tuberculosis have already given encouraging results. The final solution of the problem depends upon the combined efforts of agricultural and health authorities. The committee recommended that in each country joint commissions of doctors and veterinarians be set up to study the question and that measures be taken to eliminate bowine tuberculosis which constitutes a threat to both agriculture and public health.

See resolution WHA3 8 Off Rec Bold Hith Org 28 25

ANAESTHESIOLOGY TRAINING CENTRE, COPENHAGEN

In the past two years the Governments of Czechoslovakia Denmark France Greece Israel Sweden and Yugoslavia have requested WHO assistance in establishing training centres for anaesthesiology Widespread interest in this relatively new speciality is due at least partly to experience gathered during the second World War Modern anaesthesiology has effectively contributed to diminishing surgical mortality rates by preventing complications in the operating room and during the postoperative period Other significant aspects of up to date anaesthesiology as practised in Canada the United Kingdom and the USA have gained recognition in many other countries where the new speciality has not yet been introduced Among these aspects are the new vistas that have been opened up to sur gery the increasing desire of obstetricians internists psychiatrists etc to consult with and to use the services of an anaesthesiologist and the recognition by hospital administrators and health authorities of the advantages of an anaesthesiology department to hospital management Public health administrations in Denmark and Sweden for instance have developed plans to provide at least one fully trained full time anaesthesio logist for each hospital in the country Even in countries where anaesthesio logy is already a firmly rooted speciality adequately trained anaesthesio logists are not available in such numbers. It will take several years to train the required numbers of such personnel in the Scandinavian region and the WHO training centre for anaesthesiology in Copenhagen is designed to assist the governments in carrying out their plans. More recently in France the Ministère de la Santé publique et de la Population in co opera tion with the Ministere de l'Education nationale and with the medical faculty of the University of Paris has developed similar plans

The training centre for anaesthesiology in Copenhagen was opened on 1 May 1950. It is operated jointly by the Danish State Medical Board (Sundhedsstyrelsen) and the University of Copenhagen on the one hand and by the World Health Organization on the other. Four of Copenhagen a largest hospitals are engaged in the teaching programme the University Hospital (Rigshospitalet) the Municipal Hospital the County Hospital (Kobenhavns Amtssygehus) and the Bispebjer Hospital Professor E Husfeldt selected jointly by the Government and the Faculty is in charge of the administration of the training centre with Dr E W Andersen Chief Anaesthesist Copenhagen County Hospital acting as secretary The teaching programme proper is the responsibility of senior instructors provided by the World Health Organization

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Originally, training of physicians from only the Scandinavian area was contemplated, however, requests have also been received from countries

FIG 2 ANAESTHESIOLOGY TRAINING CENTRE



or S C Cullen Professor of Anaesthesia at the State University of Iowa USA is shown giving a result of the County of the Water State University of State University of Wisconsin and Anaesthesiology at the University of Wisconsin USA Dr.E. W. Andersen (extreme right) Anaesthesis in Chief Copenhagen County Hospital and a group of traineer

outside the area, and the Danish Government has agreed to the admission of some of these physicians Besides the Danish trainees. there are at present one physician from Sweden. four from Norway, three from Finland one from Iceland, one from Yugoslavia, and two from Austria receiving training bringing the total number of trainees to twenty for the first year course of the training centre

WHO assistance to the Danish Government essen tially consists of the following contributions

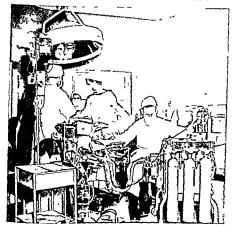
- I Expert advice in organizing and operating the training centre
- 2 Granting of fellow ships to non Danish train ees Danish trainees are not entitled to fellowships according to existing regul ations, however, they are

being provided with necessary textbooks just as are non Danish participants in the course

- 3 Provision of a fairly comprehensive selection of texts and mono graphs on anaesthesia to serve as a reference library for the training course Three different models of anaesthesia machines and various accessory equipment that were not available in Denmark have also been provided thereby making it possible for the trainees to work with various types of apparatus
- 4 Provision of the foreign teaching staff for the entire duration of the courses

The services of instructors of highest international standing are being sought and acquired $\,$ The names of Professors S C Cullen and R M

FIG 3 ANAESTHESIOLOGY TRAINING CENTRE COPENHAGEN II



Modern methods of anaesthesia in practice in the operating room

Waters of the USA of Dr C Grey and Dr W Mushin of the United Aingdom and of Professor T Gordh of Sweden make an impressive lat of senior instructors for the current course Besides these senior instructors a number of fully qualified jumor instructors from the United Kingdom and the USA assist the senior chief in his work.

The blue print for the organization of the centre and its curriculum is being deceloped by Professor Cullen of the State University of Iowa Trainces undergo intensive training in the operating room where they work under the supervision of their local or foreign instructors Operating room work takes up more than half the day and is followed by a regular schedule of lectures and conferences covering basic sciences public health aspects and clinical problems. Danish and foreign instructors in anneathe siology give most of the lectures however professors of the medical

faculty of the University of Copenhagen augment these lecture programmes by presenting relevant material on specialized subjects in anatomy, physio logy, pharmacology etc. It has also been possible to secure guest lecturers, from the nearby University of Lund Sweden, for example. At certain times, such as during the session of the International Physiology Congress in Copenhagen, it has been possible to enlist the co-operation of some outstanding visitors.

Among the important diductic features of the training course are the so called 'schedule conferences', that take place daily in each hospital, during which the instructor and the truines discuss all cases scheduled for surgery on the following day. In addition there are the weekly "morbidity and mortality conferences", at which all the complications and deaths in the preceding week are critically considered by the full assembly of instructors and trainees, with chief surgeons of the relevant departments participating frequently. There are also two other regular weekly lectures, the so called "basic science seminar" and lectures on selected subjects. Specialized instruction is given in bronchoscopy and in blood bank management.

Trunees undergo quarterly written examinations Examination papers are afterwards discussed in detail orally by the instructor and the trainee Upon completion of the course, trainees will receive a certificate of attendance, issued jointly by the University of Copenhagen and WHO

FIRST WHO REGIONAL CONFERENCE ON HEALTH STATISTICS

Without the aid of health statistics, only an incomplete picture of the state of health of a people can be obtained which makes it difficult to draw up appropriate programmes and subsequently, to judge their effectiveness Improvement of health statistics has been considered at several international meetings attended by experts from all parts of the world. However, because of the diversity of conditions from one country to another, the recommendations made at these conferences could be only of a general nature. The study of the problem on a regional ruther than a worldwide basis could be more fruitful. With the aim of studying means of improving health statistics in the Eastern Mediterranean Region the first WHO Regional Conference on Health Statistics met at Istanbul Turkey on 8 and 9 September 1950. It was attended by representatives from Egypt Ethiopia, France Iran Iraq Israel Lebanon Pakistan Saudi Arabia Syria, Turkey and the United Kingdom. Dr. K. Olear (Turkey) was elected Chairman. Dr. Salem Abd El Maguid (Egypt) Vice Chairman and Dr. A. J. Rizali (Iraq) Rapporteur.

Improvement of Health Statistics

The primary requisite of health statistics is reliable population figures. The conference therefore stressed the importance which governments should accord this question and recommended that methodically conducted national censuses be taken at regular intervals and that when official publications give figures for estimated "population (ie not established by census) the method used to make such estimates should be clearly stated.

Incorporation into national laws of the new definitions proposed by the Subcommittee on the Definition of Stillburth and Abortion ³ and adopted by the Third World Health Assembly would also lead to improvement in the registration and value of demographic data particularly those concerning birth. The conference therefore requested all countries to make use of these definitions as soon as possible in their own statistical gradue.

As regards mortality statistics the conference recommended that in compiling them attention be paid to the place of residence of the deceased persons. In countries where medical organization is not very highly developed it is frequently possible to obtain proper medical care only in large towns. Consequently sick persons go there in large numbers and in the event of their death, an element of error is introduced into the statistics since mortality appears much higher in such centres than in other parts of the country. Furthermore in the interpretation of mortality statistics by cause of death it is necessary to bear in mind the very unequal value of data based on observations made by qualified medical staff as compared with those referring to deaths where the cause has not been medically certified. The reliability of diagnosis in this latter category may be rightly and strongly doubted and very critical judgement should be exercised in this respect. Consequently the conference recommended that in the future a clear separation be made on statistics by causes of death between those which have been medically certified and others. Moreover it is to be hoped that the proportion of the latter will gradually decrease

It will be the responsibility of national administrations to implement these various recommendations with a view to obtaining reliable health statistics. The same aim could be attained more rapidly if an interest in statistics could be aroused in physicians and hygenists, and a systematic study of these problems made. For this reason the conference requested the various governments of the region to set up national committees on vital and health statistics to study the special problems which arise in each country and to ensure international co-ordination in this field. WHO acting as intermediary

Centralization of Data

Another task which WHO and its regional organizations must fulfil is the collection of a certain amount of basic statistical information so as to give an adequate picture of the situation in each country and permit the elaboration of appropriate health programmes. The conference therefore requested the Regional Director to submit to governments of the States of the region a list indicating the various vital and health statistics which they would have to supply to the Regional Office. The governments, in turn, will formulate and submit their observations a necessity since they are perhaps not ill in a position—owing to lack of suitable institutions or qualified staff—to collect as complete information as might be desired and must, therefore qualify the minimum list of fundamental statistical data to be furnished by each country

A similar effort will be undertaken to standardize the different types of forms and reports concerning vital and health statistics

Training of Personnel

The different ways of approaching the question of improvement of health statistics show that one of the essential problems to be solved is that of the statistical training of medical personnel. The conference therefore adopted the resolution on this subject which was adopted by the Expert Committee on Health Statistics and noted by the Second World Health Assembly. This resolution stresses the importance of

- (1) elementary training in statistical methodology for all medical students,
- (2) more advanced teaching of the same subject to physicians training for posts in public health administration,
- (3) instruction in the elements of medical statistics for non medical personnel engaged in certain statistical work

These measures however can give tangible results only after some time. The conference therefore drew up a proposal along the same lines which can be put into effect immediately. This consists of the possible organization under the joint auspices of the United Nations and WHO of a regional instruction course in vital and health statistics for medical personnel and those specially concerned with these questions in the competent national services. It likewise suggested the setting up of a shorter course for auxiliary statistical personnel. The representative of Iran, on behalf of his government proposed that the centre be established in his country and offered all the necessary facilities.

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LYMPHOGRANULOMA VENEREUM

Lymphogranuloma venereum, which has been described under various names such as lymphogranuloma inguinale. First s disease. Nicolas Favre disease and fourth venereal disease is caused by a specific virus. The skin test introduced by Fire in 1925 has made possible studies which have shown that the geographical distribution of this disease is more extensive than had been supposed that it is in fact worldwide though its incidence is greater in the tropics.

The epidemiology etiology clinical aspects diagnosis and treatment of lymphogranuloma venerum are the subject of a comprehensive and up-to date review appearing in a recent number of the Bulletin of the World Health Organication by Professor W E Coutts Chief of the Department of Social Hygiene Public Health Administration Santingo Chile and member of the WHO Expert Committee on Venereal Infections

This disease is generally of venereal origin. However other possible sources of infection such as unnatural sexual intercourse and accidental contagion of the kind which might occur in the laboratory should not be ignored. In addition the existence of asymptomatic carriers has been proved

Lymphogranuloma venereum is caused by a virus of a lymphotropic nature. This lymphotropism is responsible for the differentiation in the type of involvement observed in clinical practice as infection spreads mainly along the lymphatics. The virus is active at room temperature for 24 28 hours and remains active after drying for 30 days.

The clinical manifestations may be grouped into three stages primary secondary, and tertuary. The initial lesson appears on the genitalia rectum mouth etc from 10 to 30 days after exposure. This lesson is generally an ulcer with clear-cut edges surrounded by a reddened zone and with a whitish grey base. A local or regional oedema forms producing phimosis in men and swelling of the external genitalia in women. These primary manifestations are accompanied by inflammatory symptoms at the site of infection—rurethritis vagantis proctitis stomatutis etc. Adenopathy appears in the lymphatic drainage area corresponding to the site of penetra toon of the virus. In many cases (50° 70°/) the bubo is the first noticeable sign of the disease but it is actually only one of a complex of manifestations which are symptoms of the secondary period. The appearance of the bubo sis accompanied by a sensation of stiffices and aching. The process extends until all the glands of the group are involved the infected lymph nodes forming one conglomerate mass and adhern git to the skin covering them which is of a rather characteristic purplish colour. Softening then occurs in one or more zones and formition of abscesses and fistulas from which first pus and later a sero vised fluid drains is a characteristic feature.

The adenopathy usually subsides after 2 or 3 months but druning sinuses may persist for a much longer period. The location of the buboes depends on the site of the initial infection. In 75% of cases there is involvement of the deep iliac lymph nodes. This is frequently accompanied by complications due to the inflammation of these glands and diagnosis becomes difficult, particularly if the primary manifestations are not characteristic.

The constitutional reactions are not specific but may overshadow the local manifestitions of lymphogranuloma on account of their severity. They include fever, headache vomiting rheumatoid manifestations etc. The disease is accompanied by secondary maemin and leucocytosis, the crythrocyte sedimentation rate is considerably increased and hyper globulinaemia and decrease of serum lipids are also observed. After the secondary period, many patients become asymptomitic. Others present extremely varied clinical pictures, the syndromes corresponding to manifestitions appearing on or around the genitalia.

The tertiary stage is marked by symptoms such as esthiomene, urethro genito perineal syndrome, elephantiasis of the penis and scrotum, rectal stenosis, and plastic induration of the penis Esthiomene is characterized by a chronic ulcerative process which appears on the external surface of the labia majora, on the genito crural folds lateral and anterior regions of perineum mons veneris, etc The urethro genito perinent syndrome is characterized by the appearance of penile, scrotal, or perincal sinuses from which drains a sero viscid fluid or urine or a mixture of both. It may be present with or without urethal stenosis Rectal stenosis may present itself as the only manifestation of the disease, or as a complication or integrant of genital syndromes, and appears from 1 to 10 years or more after the initial infection. Other manifestations affecting the skin cardiovascular system (pericardial symphysis arterioselerosis, obliterative arteritis etc.) respiratory system digestive system (glossitis oesophageal ulcers gastritis, cholecystitis etc.) and nervous system have also been described

Diagnosis may be made by various methods and procedures including Free's intricutaneous test, the complement fixation test, culture of the virus and histopathological changes. Routine diagnosis is based principally on Free's intracutaneous test. This highly specific reaction is characterized by the appearance of a pipule of 6×6 mm. with surrounding crythema 48.72 hours after injection of the specific antigen. The results obtained with the complement fixation test have been shown to be more specific than those with the intracutaneous test. Other advantages of the former test are that it makes mass screening of population groups possible and that it can be carried out at the same time as scrological examination for syphilis.

Up to the present time, medical and surgical therapies have been rather unsatisfactory. The sulfonamides and most of the antibiotics have not proved very useful. However, more encouraging results have been obtained

with aureomycin. One week after treatment had begun no elementary or inclusion bodies could be detected from smears made by aspiration of bubbes. In patients suffering from proctitis definite improvement was noted after 4 to 8 days.

THIRD INTERNATIONAL DIGITALIS STANDARD

Digitalis is one of the 37 substances for which international standards have been established during the past 25 years. The first digitalis standard was adopted in 1926 by the Permanent Commission on Biological Standard dization of the League of Nations Health Organization. Owing to the demand stocks of the standard were technically of the 35 and a second standard was therefore prepared. In 1947 when this supply also was running out the Expert Committee on Biological Standardization of the World Health Organization authorized the Depirtment of Biological Standards of the National Institute for Medical Research. London to make arrange ments for renewal of the standard

In a recent article in the Bulletin of the World Health Organization ¹ Dr A A Miles Director of the Department of Biological Standards of the National Institute for Medical Research London and Dr W L M Perry of the Department of Physiology and Pharmacology of the same institute describe the various stages in the preparation and assay of the test standard.

The material for the preparation of the standard was obtained by mixing six batches of digitalis powder procured from three different count intes (USA United Lingdom and Switzerland). The biological assay against the second standard was carried out in 16 laboratories of eight different countries.

The authors give a statistical analysis of the results of all the assays and describe the methods employed to obtain by a combination of the tresults a potency unit for the new standard. The unit of the third international digitalis standard is defined as the activity contained in 76 mg of the standard preparation. This unit differs very little from that of the second standard which was defined as the activity contained in 80 mg of the earlier preparation.

A comprehensive annex includes details of the procedures presented to the laboratories for the cat guinca pig, and frog assays. It is known that there is not complete agreement between the results of assays on different animals. The authors also explain the advantages and dis advantages of each procedure.

RECENT ENTOMOLOGICAL RESEARCH

Two articles on insect disease vectors have just appeared recently in the Bulletin of the World Health Organization. The first, by Dr. Karl Jordan formerly Director of the Zoological Museum, Tring, Hertfordshire (England) is entitled "Notes on a collection of flevs from Peru." Twenty species of fleas collected in 1946 and 1947 during the investigation of outbreaks of wild rodent plague in certain districts of Peru were identified at the Zoological Museum Tring. Four of these species were previously unknown and a detailed description of them is given. Several of the others were new for Peru. The resemblance between some of the specimens and certain northern species raises interesting questions regarding the geographical distribution and evolution of the various species, certain subspecies may represent stages in their evolution.

In a study entitled Malaria along the Mexican United States border', a Dr L Vargas of the Instituto de Salubridad y Enfermedides Tropicales and of the Dirección de Cooperación Interamericana de Salubridad Publica, Mexico, gives a list of species of Anopheles which are encountered on both sides of the frontier between Mexico and the USA and which play an important role in the transmission of malaria Dr Vargas surveys the geographical distribution and characteristics of the different species Anopheles freeborm, A pseudopunctipennis typicus A quadrimaculatus, and A albimanus may be considered as the most frequent malaria vectors in the region

INFANT MORTALITY IN ICELAND

An improvement in general living conditions and the standard of education in a country generally results in a decline in the infant mortality rate. This phenomenon is well illustrated by the case of Iceland as pointed out by Dr.J. Sigurionsson. Professor of Hygiene at the University of Iceland?

The infant mortality rate in Iceland has shown a continuous decrease, amounting roughly to 20% 22% per decade during the last century, so that it is now less than one tenth of what it was a hundred years ago. This trend has accompanied a rise in the standard of living and sanitary conditions of the country although special child welfare services are of recent origin. A tenfold increase in the number of doctors is another fretor which has contributed to the decreasing infant death rate.

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The average rate for the period from 1941 to 1947 was 33 7 deaths per 1000 live births the lowest value reached for a single year was 22 in 1947. Until 1945 the decline in the rate of mortality of infants under one month in age was as significant as that of the total infant death rate Since 1911 the decrease in deaths from respiratory diseases and gastro intestinal disorders has been most marked whereas death rates due to prenatal and natal causes have remained almost stationary at just below 20 per 1000 live born boped that through better care of women during pregnancy and delivery it will be possible to reduce the number of deaths due to prenatal and natal causes so that the total infant mortality will be below 20 per 1000 live born children during the next decades

EVOLUTION OF MORTALITY IN EUROPE, 1900-1947

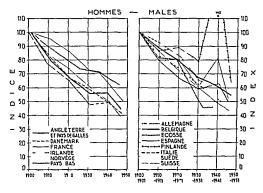
A new contribution to the series of studies on mortality in Europe during the twentieth century has just appeared in the Endemiological and Vital Statistics Report 1 Data concerning mortality by sex and by age without distinction as to cause of death have been analysed by Dr M Pascua Deputy Director Division of Health Statistics WHO

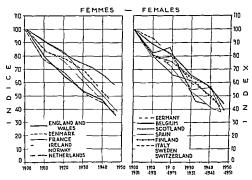
As stressed by the author the accuracy of the statistics is not the same in countries. Errors may arise particularly those due to incorrect data concerning age supplied by the population during censuses and to the relative number of deaths classified under the heading age unknown. Thus all the data cannot be accepted as strictly accurate. However it would be merely empty scepticism to refuse to believe the information at our disposal which clearly reveals a considerable fall in mortality in Europe This decrease is of the order of 40 %.

After having indicated on what basis the statistics have been analysed and the periods considered in the various countries. Dr Pascua reviews the evolution of mortality by age group and by sex in each of the following countries. Belgium Denmark England and Wales Finland France Germany Ireland (not including Northern Ireland) Haly the Netherlands Norway Portugal Scotland Spain Sweden and Switzerland The following are some of the general conclusions drawn by the author from this study

The fall in infant mortality as a whole exceeds 50% In certain countries (Denmark England and Wales the Netherlands Sweden and Switzerland) the infant mortality rate is one third lower than at the beginning of the century Among children of preschool age (I to 4) earsy) the fall in mortality is still more striking. In certain countries the mortality rate is about a quarter of that of 1900-1901. It is interesting to note in this connexion that the movements of relative decline have been similar in a large number

FIG 4 TREND OF MORTALITY IN AGE GROUPS UNDER 65 YEARS





of countries with great differences in their public health organization medical care for children and social and economic conditions. The analysis of motality by cause of death which will be subsequently studied will no doubt help to explain this problem.

For other age groups up to 45 or 50 years the specific mortality rates have been reduced by at least half in the majority of the countries considered with the exception of Ireland In Belgium and Spain however at least in the case of males the decrease is not so pronounced In a general way for ages below 65 a continual and distinct decrease can be noticed the present mortality rates ranging between 40% and 60% of what they were at the beginning of the century

As concerns the age group of 75 and above some fluctuations of the specific mortality rates can be observed during the half century a general fall of 10% to 15% being evident around 1946. This figure has been exceeded in the Netherlands where the decline has been clearly marked since the end of the second World War In Sweden on the other hand there has been no decrease in mortality rate for this age group.

In all countries the lowest mortality rates both at the beginning of the century and in more recent periods have been registered for the age group of 10 to 14 years

The second factor whose bearing on mortality has been considered in this study is sex. A rice there any approciable differences in mortality according to sex. 7 In the recent period and for all ages it is found that the mortality rate for males is higher than that for females the ratio of the two rates reaching 1.23 in Span in 1946 and 1.19 in England and Wales in 1947. Only Sweden shows equal rates for both sexes.

The mortality of male babies has always been higher than that of female babies the difference amounting sometimes to 20% 25% In the liberian Peninsula and in Italy however the difference has been less pronounced the quotient frequently being only 112

At the beginning of the century was lower than that among girls At present the reverse is observed and the quotient variest between 1 40 and 150 for children aged 5 to 9 (Denmark Norway Sweden Switzerland) It often exceeds 1 20 for the 10 to 14 age group (Denmark England and Wales France Germany Italy Norway the Netherlands and Scotland)

As regards ages between 15 and 75 a similar phenomenon is seen the mortality of males in recent periods has been definitely ligher than that among females quotients reaching 1 60 or 170 not being uncommon in middle age. Generally speaking this difference in mortality rates between the seres was not so pronounced at the beginning of the century. At that period the quotients of the rates were not far from 1. It is certain that the after effects of the two world wars are reflected in these figures. However at Ireland no significant difference can be observed between the mortality

rates for the two sexes The quotient of the rates remains at about 1 for ages between 15 and 50 In Denmark there is a tendency for the rates to be equal

For persons aged 75 years and above, the quotient of the mortality rates by sev has varied only slightly during the half century. The mortality rate for men in this age group is generally 10% to 15% higher than that for women in the same group. This difference is lower in the Scandinavian countries and the Netherlands.

The author has tried to give a tentative estimate of the number of deaths which would have occurred around 1947 if the mortality rates had remained the same as at the beginning of the century. He also gives the theoretical number of lives "saved. The population of 13 of the countries in question for which information relating to 1947 is available, comes to 203 000,000. If the mortality rates had remained constant since 1900, there would have been 4 187,000 deaths in 1947 for all age groups, i.e. 1,750 000 more than the number actually observed. The decrease in mortality may therefore be put at 42%. The saving in human life among babies was 60% It amounted to 69% for children aged 1 to 5 and 18% for persons aged 75 years and over

Reports from WHO Fellows

Many of the letters and reports received from WHO Fellows have been of such interest that they deserve to be read by a wider public. They demonstrate more vividly than a series of facts and figures both the nature of the fellowship programme and the response of the Fellows themselves Selections from these reports are therefore published from time to time but it must be emphasized that the opinions expressed are those of the Fellows

The Architecture of Hospital Buildings

Mr S. kliska. Professor at a technical school in Belgrade Vingoilava) made a three months study-trup as a W HO Fellow He went to Denmark. England Sweden and Swit erland in order to visit the principal hospital buildings in these countries and to study present architectural trends in this field. Below is some of the information which he obtained during his visit to Sweden, a country where the hospital services are being greatly expanded

The modernization of the Swedish hospital system has provoked much discussion in interested circles. Although new hospitals have been constructed the greater number of beds is still found in the older ones and despite construction carried out during the war the hospital services do not yet completely cover all needs.

According to Mr Kliska, the first question which arises is whether the older hospitals should be remodelled or whether new ones should be constructed. Because of the spread of blocks of flats and of industrial buildings, it is often difficult to find a suitable site for a text hospital in large towns. Consequently, the problem becomes one of determining how hospitals which are satisfactorily situated can be retained with services being continued while modernization is taking place. Some attempts in this direction have been made such as partial reconstruction or remodelling and adaptation to new medical needs. On the whole such efforts have been rather unsatisfactory therefore the necessity of constructing rather than perconstructing demands attention.

Another question must then be answered what type of hospital is preferable? A number of architects are in favour of total centralization as opposed to the so-called Pavision system In Stockholm Mr Klicka was able to vast two large modern hospitals one of which the Karolnisk Hospital includes pavisions for the psychature services a radium institute and other separate departments in addition to the central building while recognizing the advantages of some degree of decentralization Mr. Klicka feels that the karolniska Hospital does not serve as a good example of the value of this idea that the foundation of the state of the side of the

A regards the distribution of the various services the relationship between hospital and polyclinic should be defined. The hospitals mentioned above both have polyclinics as a nitegral part of the central block. It may be noted that in certain modern layouts the polyclinic governs the planning of the structure as a whole e.g. the Smoethett Hospital at Goodboor It is the nature of the duties carried out by the polyclinic which determines to what extent contact with the hospital should be maintained. If the poly clinic which determines to what extent contact with the hospital of patients after their discharge from the hospital or as a training centre. It is indispensable for it to form part of the hospital of in the other hand it it is assumed that the polyclinine plays a more important role and that it should have a separate organization then there is no reason for connection with the hospital of the than that provided by the admitting department

Advances in medicine and changing methods of freatment have caused considerable always are some first process. Furthermore improvement in social conditions which etables a greater number of people to benefit by hospital freatment makes it necessary to arrange for a sufficient number of bods to cover all needs. For these and other reasons the moofm hospital should be planned so that it can be readily enlarged

The opmons of Swedsh architects vary with regard to the placement of facilities such as the man include and the state of the facilities where and the state of the state of the state of the top floor of the building the present tendency is to install it on a lower floor chough not in the basement. It has been recognized that staff quarters should be constructed outside the hospital proper so that the staff may enjoy greater freedom of movement.

Mr Klicka paid particular attention to the activities of two bureaus which have Mr Klicka paid particular attention to the activities of two bureaus which have the paid of rates for the two sexes The quotient of the rates remains at about 1 for ages between 15 and 50 In Denmark there is a tendency for the rates to be equal

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The modernization of the Swedish hospital system has provoked much discussion in interested circles. Although new hospitals have been constructed the greater number of beds is still found in the older ones and despite construction carried out during the war the hospital services do not yet completely cover all needs. of Iraq with the support of the United Nations International Children's Emergency Find Beelt which is believed to be a form of endemic spibilities is widespread among ortan normadic and seam nonandic populations in the Eastern Mediterranean area. The prisect for its control in this area will be an elementary of the elementary which has proved highly effective against other treponemators. Fpidernological and laboratory studies will be carried out concentration with the control measure.

D. E. H. Hudson. Director of Health Service. Ohio University and author of Trepoembilists: a standard work on the subject, has been named chief med cal adviser for the project. Dr Hudson left for Baghdad early in October to begin preliminary operations. Advisoral W.HO. Designing are expected to upon him later.

Relief to the Civilian Population in Lorea

Following an appeal from the Urited Nations WHO has appointed a mission to be as to assist in the relief and support of the civilian population. The mission will work under the United Compand

Dr. Walter H. Crichton (United Kingdom) director of the mission, will act as adviser to the Ministry of Publis. Health and Social Affairs of Korea and will maintain hission between the Unified Command and the Ministry Dr. Crichton has wide expressive in publis health administration and epidemic control companiers. He will be assisted by another nublish health administration officer.

Five fearns each consisting of a public health officer and a sanitary engineer or statisty inspector will advise the local health authorities on the control and prevention of epidemics and on sanitation problems.

Rural Health Demonstration and Training Centre in the Philippines

The Government of the Philoppines with assistance from the United Na ions Intervalunal Children is Finergeous Frond (UNICEF) and WHO is opening a rural health demonstration and training centre at which health personnel of many types will receive instruction. Special emphasis will be given to maternal and child health but the centre will also be concerned with the prevention and control of communicable diseases tuber calous and malaria control nutrition sanication vital statistics health education. Participation of the properties of the properti

Dr C Ferrolino (Boliwa) has been appointed by WHO to serie a consultant on martinal and child health activities in this project. Dr Ferrulino received his medical farming in Sanitapio Chile and at Harvard University. USA. He is chief of the medical distion of the Servicio Cooperativo Interamencano d. Salud Publica and teaches child Oppene and care in various insultutions. He was formetly General Inspector of Health in Bolivia. he also served with UNRRA as Chief Medical Officer in di placed persons astembly centres.

Assisting Dr. Ferrufino in his Philippines assignment will be a WHO nurse. Miss W Visscher who was formerly with the maternal and child health team in Korea.

Nursing Conference Held in Leyden

In early October a two week conference on nursing was held in Leyd in the Aether lands. Forty four public health nurses from Belgoum Dennard. England Findiand France Include Luxemburg the Netherlands Norway and Sweden attended this conference with it was opstaized by the Netherlands Government and WHO. Professor R Remmetts Dire tor of the institute of Preventive Medium Levden directed the

Notes and News

International Training Centre for Biostatistics

International training and study centres for biostatistics (vital and health statistics) are to be organized in various countries on the model of the meetings devoted to statistics and censuses which recently took place in Mevico City Carro and New Delhi. These centres in whose formation WHO is particularly interested, will have the task of organizing refresher courses for personnel dealing with biostatistics in national administrations. They will thus make an important contribution to the improvement of statistical methods in use in the different countries and help thereby to increase the efficiency of their statistical services.

The first Inter American Seminar for Biostatistics has been organized in Chile with the assistance of WHO. It will deal mainly with statistical methods and the co-ordination which should exist between different institutions in the same country i.e. registry offices, services for health statistics central statistical offices etc. The courses will last about three months so that the instruction given may have the required technical character.

The various problems raised by stal and health statistics will be approached above all from the practical point of view. The participants will certainly not all have the same range of knowledge. Consequently it will be necessary regardless of the nature of their previous training to teach them first the essential elements of statistics, provision is also made for more advanced courses.

The discussion meetings because of their non theoretical character will deal with a restricted number of subjects and include a study of the problems most frequently encountered. Special attention will be paid to practical work so as to enable all students to benefit by the experience already acquired in countries other than their own

WHO Assists in Paediatrics Training Activities in India

WHO is furnishing technical guidance and assistance in a joint project of the Government of India and the United Nations International Children's Emergency Fund (UNICEF) for the development of a modern training centre in paediatries in Delhi Province UNICEF funds will be used to provide personnel and equipment for a maternal and child health project already taking shape in a rural area of the province and for enlarging and improving Delhi hospital facilities to serve as a training centre for paedia truesans and needstartic nurses from all parts of India.

Dr B Landtman (Finland) and Miss N Toy (Canada) form a WHO team which has been attached to the staff of the Irwin Hospital New Delhi to give practical assistance in this project. Dr Landtman is a specialist in paediatries who worked in the Children Hospital of the University of Helsinki and subsequently in children's hospitals in London and Stockholm Miss Toy taught at the Toronto Hospital for Sak. Children and was on the staff of the Montreal Child Health Association in Canada In addition to her present work at the Irwin Hospital she is teaching paediatric nursing to students at the Delhi College of Nursing

Bejel Control Project in Iraq

Acting upon recommendations of the Expert Committee on Venereal Infections, WHO is assisting in a bejel-control project which is being undertaken by the Government

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CHRONICLE OF THE WORLD HEALTH ORGANIZATION

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conference In addition to representatives of WHO speakers included several Dutch health officials

This was a working "conference at which views were exchanged on problems facing the nurse today and on the role of the nurse in the light of new trends in public health. Among the special topics discussed were health education mental health nutri tion and the social aspects of public health work.

CORRIGENDUM

1950 Vol 4, No 78 p 224

Line 27 for Old tuberculin 0.01 ml

LEYDEN AND STOCKHOLM SEMINARS ON INFANT METABOLISM

Dr S Z LEVINE

Professor of Pediatrics and Pediatrician in Chief New York Hospital

Cornell Medical Center

Two seminars on infant metabolism were recently held under the aegis of WHO and at the invitation of the governments of the Netherlands and Sweden Each was of approximately two weeks duration the first taking place in Leyden from 15 to 30 October the second in Stockholm from 16 to 15 November. The participants included paediatricians and scientists from the host countries delegates from Belgium Denmark Finland France and Norway a visiting team of four from the USA and WHO staff members. Three continents eight countries and twenty one universities were represented and well over 125 persons took part in one or more of the panel meetings. In the group were physiologists biochemists physicist (stootpe research) internists endocrinologists obstetnicians ophthalmologists nutritionists and others in addition to piediatricians. Paediatric conferences with as broad a basis as these will undoubtedly help to clevate child welfare throughout the world.

The chairmen of the conferences Professor E Gorter at Leyden and Professor A Wallgren at Stockholm in collaboration with the WHO staff and Dr S Z Levine Chairman of the visiting team from the USA were responsible for arranging the conduct and content of the seminars.

The attendance at and participation in the opening exercises at Leyden by Dr P M Dorolle WHO Deputy Director General and at Stockholm by Dr Brock Chisholm WHO Director General played an important role in getting the conferences off to a good start. The study sessions themselves which were carried on in a highly informal manner called for free frank and objective discussion. The transactions were recorded verbatim by sound recorders and will subsequently be published.

The subjects discussed might be considered to fall into three main groups (a) new methods and techniques (b) subjects of mutual interest in which participants are already actively engaged and (c) fields of study which have not as yet engaged the intensive attention of the scientists of one or more of the participating countries. In terms of these aspects the seminars in Leyden and Stockholm would appear to me to have fulfilled the purpose of such gatherings in both countries there was a nice distribution of all three elements. Special reference might be made to the high development among the Swedish scientists of biophysical methods including paper electrophotesis radio active tracers and paper chromatography. These methodological approaches will undoubtedly lead to future advances.

RECENT AND FORTHCOMING MEETINGS

WHO Expert Committee on Insecticides, second session, Geneva,

1950 4 11 October

April

9 April

7 May

April or May

tentatively

4 11 0000001	WHO Expert Committee on insecticities accord session General
9 18 October	WHO Expert Committee on International Epidemiology and Quarantine third session. Geneva
30 October 4 November	WHO Expert Committee on the Unitication of Pharmacopoxias seventh session. Geneva
29 November	WHO Expert Committee on International Epidemiology and Quarantine Legal Subcommittee third session Geneva
6 7 November	WHO Expert Committee on the Unification of Pharmacopoeias Subcommittee on Non Proprietary Names first session Geneva
6-11 November	WHO Expert Committee on Biological Standardization fourth session Geneva
6 13 November	WHO/FAO Expert Advisory Panel on Brucellosis first session Washington
27 November 9 December	Commission for Technical Co-operation in Africa WHO Malana Conference in Equatorial Africa Kampala Uganda
11 12 December	Meeting of Experts of WHO Technical Advisory Group on Public Health Administration Geneva
11 16 December	WHO Expert Committee on Malaria fourth session Kampala Uganda
11 16 December	WHO Expert Committee on Mental Health Subcommittee on Alcoholism first session Geneva
11 16 December	WHO/FAO Consultant Group on Bovine Tuberculosis and Other Zoonoses first session Geneva
1951	
8 January	WHO Executive Board Standing Committee on Administration and Finance
22 January	WHO Executive Board seventh session Geneva
April tentatively	WHO Expert Committee on International Epidemiology and Quarantine fourth session. Geneva
Aprıl	WHO Expert Committee on the Unification of Pharmacopocias

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Joint FAO/WHO Expert Committee on Nutrition second session

WHO Special Committee to consider the Draft International Sanitary

Regulations prepared by the Expert Committee on International

WHO Expert Committee on International Epidemiology and Quarantine Legal Subcommittee fourth session Geneva

eighth session Geneva

Epidemiology and Quarantine Geneva

Fourth World Health Assembly Geneva

Rome

the relation of basal metabolism to blood and heart volume in infants retrolental fibroplasia in premature infants etc

An exchange of information at an objective level in order to be most effective must be supplemented by cordial personal interrelationships among those imparting and receiving the information. It is my impression that in these seminars the co-operation which was established between the representatives of the visiting team the participants from the neighbouring countries and those in the host countries was eminently successful. A

FIG 2 INFANT METABOLISM SEMINAR-II



One of the round table discussions at the Leyde s mina

friendly spirit of objective critical evaluation permeated the actual discus sions at the seminars in a highly beneficial way

The importance of conferences of this nature stems from the informal manner of their conduct from the "cubstone" contacts with others afforded to men working in isolated fields of research and from the opportunities for disseminating highly specialized scientific information sections of the world which have been deprived of these opportunities through force of circumstances. One can readily envisage that close international relationships among large numbers of eminent medical scientists in all the highly industrialized countries could be formed by the multiplication of such study groups in this and other branches of medical research

in the field of infant metabolism. Similarly, in Leyden, the presentation and demonstration of microtechniques as developed by Professor O Bessey (Chicago) for analysis of biological fluids in infants, served an exceedingly useful purpose.

At both the Leyden and the Stockholm seminars, there were a number of subjects in which representatives of several countries had been actively engaged. There was therefore a great deal of discussion which undoubtedly led to new lines of thought in certain cases for example, with regard to



FIG 1 INFANT METABOLISM SEMINAR-I

Dr S Z Levine lecturing a the seminar in Leyden Seated to the right is Professor
E Gorter Chairman

fat metabolism in relation to coeliac disease physiological foetal and neonatal hypoxia introgen creatin and creatinine metabolism in infancy and human versus cows milk in the feeding of premature infants. In Stockholm such subjects as fluid and electrolyte losses in dehydration calcium phosphorus and vitamin D metabolism introgen creatin and creatinine metabolism in infancy vitamin K. the feeding of premature infants and studies of kidney function aroused great interest

The third group of subjects—those which had not been studied inten sively in one or more of the participating countries—included for instance the effect of ACTH and the adrenocortical steroids on premature infants the use of tocopherols in the neonatal period—the relation between hypophysis and the adrenal glands in calcium and phosphorus metabolism the molecular structure of mineral salts in bone tissue during growth

may give rise to serious disturbances in family relationships. Authoritative advice from and an understanding attitude on the part of the health worker can do much to aid the prospective parents in making satisfactory emotional adjustments.

Infants and pre-school children Many infant health practices—such as rigid feeding schedules intolerant and premature toilet training and restriction of infantile movement—may be damaging to the child's

FIG 3 EXPERT COMMITTEE ON MENTAL HEALTH SECOND SESSION



Left to ight DrA C Pacheco e Sil a DrH de R yter DrT F Rodg DrW C Me ninger (Chai man) DrG R Hagea \$ (WHO)

development and to his subsequent mental health. Public health workers who deal with infants should try to make parents aware of this danger. Of primary importance in the early years of a child s life is the mother.

child relationship and health workers should try to preserve strengthen and stabilize this relationship Separation of a child from its mother Particularly during the first three years should be avoided except as an integency measure. The committee discussed in detail the situations which necessitate separation of infants from their mothers the emotional consequences and the different types of placement in homes or institutions to which the child may be subject. Highlights of this discussion follow

l It was pointed out that governments which establish day nurseries or creches in order that mothers of pre-school children may undertake

MENTAL HYGIENE AND PUBLIC HEALTH

At its second session held from 11 to 16 September 1950 the Expert Committee on Mental Health concentrated on showing specific ways in which mental hygiene is the concern of public health services and on discussing mental health problems which they may encounter

Definitions

The committee recognized the necessity for explaining as precisely as possible what is meant by the terms—mental health—and—mental hygiene. Whental health was defined as a condition subject to fluctuations due to biological and social factors which enables the individual to achieve a satisfactory synthesis of his own potentially conflicting—instinctive drives to form and maintain harmonious relations with others—and to participate in constructive changes in his social and physical environment—Mental hygiene was interpreted as referring to all the activities and techniques which encourage and maintain mental health.

Mental Hygiene in Public Health Practice

Mental hygiene enters directly or indirectly, into all phases of public health service. The committee attempted to illustrate how knowledge derived from clinical psychintry can be applied to public health practice and to stimulate those engaged in this practice to an increased awareness and understanding of the mental hygiene implications of their work.

Family services

Maternity. In dealing with prospective parents, public health workers tend to overlook the emotional significance of the experience. The fears natural and unnatural and the ambivalence (i.e. changeable feelings) of the oregnant woman and her husband concerning the expected child

The following took part in the session

Members
Dr W C Menninger The Menninger Foundation Topeka Kans s USA (Ch. 1 mo.)
Dr USB B Nordlund D rector Ch.1d Guidance Department Northulls Hops tal Stockholm Sweden
Dr A C Tachence S La Professor of Clinical Hyphithry University of Sto Paulo Breat
Dr T F Rodger Professor of Psychological Medicine University of Sto Paulo Breat
May 1 Rodger Medican for 1 Hos and Association Stockholm Sweden
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M" J Roudineco Médecin de l'Hôp tal Ambroise Paré (Service de Paych atrie infantile) Paris Trance
Dr Th H de Ruyter Director of the Department of Mental Health City Med eal Service Amsterdam
Rethertanda
Dr K Soddy Assistant Director World Federation for Mental Health London United Aingdon
Dr K Zimmerman Chief Ment I Health Ser te Cal forms State Department of Public Health San

Dr K Zimmerman Chief Ment I Health Ser ice Cal fornia State Department of Public Health S Francisco USA

Dr G R Hargrea es Chief Mental Health Section WHO

mental health problems Leprosy tuberculosis and venereal infections may be cited as specific examples In leper colonies the inneidence of psychological disorders is such that psychiatric hospitals have had to be provided in some of them. In tuberculosis sanatoria the psychological effects of prolonged segregation and loss of a sense of purpose in life can greatly hamper success of treatment tuberculosis patients also suffer from these effects when they attempt to adjust to normal life after discharge from sanatoria. With regard to veneral diseases the chief mental health concern is the psychological factors involved in sexual promiscuity. The mental hygenist is also concerned with the psychological implications of educational campaigns associated with anti-veneral disease measures. In can assist public health workers in making such campaigns effective.

Health education of the public

Mental health education is most successful if carried out in a personal manner. Mass education techniques applied to health education in general and to mental hygiene in particular may sometimes do more harm than good. The committee called particular attention to the psychological hazards of campaigns for raising funds to fight certain diseases such as cancer or poliomyebits the misconceptions and anxieties to which the public is subjected by such campaigns may be harmful from the mental health viewpoint. There are two ways however in which mass education techniques may be useful in efforts concerned with accident prevention and in the dissemination of information to oppose the hypochondracal effects of the commercial advertising to the public of proprietary remedies in many highly developed countries this advertising is of a type which actually encourages minor psychosomatic illnesses such as headaches and indicestion.

Immigration

The early life of immigrants in their new country is one of emotional stress and may cause serious disturbances in family relationships because of the comparatively greater ease with which younger members of the family adapt to the change in environment. In any community where immigrants exist in considerable numbers public health workers need to understand the normal psychological problems involved in moving per manently to another country.

Mental Hygiene Training for Public Health Workers

Although training of this type is still in the experimental stage the committee was able to enumerate the basic problems and methods entailed

productive work outside the home should be made to realize the implications of such a policy, from the standpoint of the mental health of the children

- 2 Holiday homes for whole families are valuable but those which separate pre school children from their parents may do as much harm as good
- 3 In choosing a foster home for a child, the primary concern should be the emotional atmosphere of the new family and the foster mother s understanding of the child and its problems
- 4 In institutions and special schools an effort should be made to create a homelike environment and to supply some sort of 'substitute mother' relationship
- 5 When a child is hospitalized, the mother should be permitted to visit the hospital as frequently as possible, and the hospital staff and health worker should try to help both mother and child through what is a trying emotional experience
- 6 The welfare of the child should be the determining factor in adoption, and for this reason it is highly desirable that, whenever possible adoption should take place during the first six months of life. The motives of the adoptive parents should be closely investigated, a desire for a sense of fulfilment on the part of both husband and wife is considered the soundest motive.

School health School medical officers should be concerned with the mental as well as the physical health of the pupils whom they examine, and they should assist the teachers in creating a school mileu favourable to the present and future mental health of the children

Handicapped children
The handicapped child is often a problem referred to public health services
The psychological mutilation which may result from a physical handicap may be more crippling than the physical condition itself. In addition the handicapped child presents a psychological problem for its family. Provided the health worker himself has a satisfactory reaction to physical handicaps he can contribute greatly to successful adjustment of the child and its family.

Care of the aged Another special concern of public health services is the care of the aged and infirm. It is important to realize that financial support of the aged is only one of the factors to be considered it is equally essential to help them achieve and maintain a sense of usefulness to society through suitable social opportunities and some sort of productive activity

Communicable diseases

The fears and stigma which are often associated with communicable diseases and the segregation which the diseases impose give rise to many

SEROLOGY OF SYPHILIS

In the diagnosis of syphilis an essential aim is the standardization of serological techniques at both national and international levels. In accordance with this principle the Subcommittee on Serology and Laboratory Aspects (of the Expert Committee on Venereal Infections) during its second session held in Paris from 23 September to 2 October 1950 1 felt that it should devote the greater part of its work to advising WHO on the problems to be solved in attaining this objective

New Developments

The need for an international conference on serological techniques -along the general lines laid down by the subcommittee at its first session 2 and subsequently approved by the Executive Board and by the Third World Health Assembly-now appears in a new light Developments of a technical nature have taken place which appeared sufficiently important to the subcommittee to justify the postponement of certain decisions These developments concern the application to the storage of sera of processes capable if the hopes placed in them are realized of considerably simplifying the standardization of serological tests

During the last year freeze drying techniques have been generally applied for the preparation of the sera used in the standardization of various products and methods. These techniques have not yet been applied to syphilitic sera and consequently there are no grounds for assuming that when subjected to this drying process such sera would retain their sero logical properties. If such were the case however it would be possible to prepare a collection of syphilitic sera coming from different parts of the world and from both treated and untreated patients, representing various levels of reactivity various stages of the disease or different types of false Positive or negative reactions These sera could be used as preliminary standards making it possible to evaluate the respective merits of various serological methods

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D T Guth Chief Venereal D se ses Sect WHO

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The mental hygiene training of public health personnel may be divided into three categories

- I In service courses for those already in public health work
- 2 Inclusion of mental hygiene in the basic training of all types of public health personnel, this to aim at giving the worker a broad understanding of human behaviour and, if possible to be incorporated into courses already in the curriculum.
- 3 Training of specialists in mental hygiene for public health service this to include subjects such as psychiatry, psychiatric social work, clinical psychology, and psychiatric nursing and an intensive study of mental hygiene in its application to public health

The committee emphasized the immediate importance of in service training. Although recognizing that specialist training will probably be considered only in the most advanced countries the committee recommended that WHO should study experiments which are being undertaken in this type of education and convene an expert group at some later date to discuss these experiments

Mental hygiene training is an emotional experience as well as an intellectual process masmuch as it requires a re evaluation of the health worker s own personal motives and relationships For this reason it is likely to meet with some initial resistance on the part of public health workers who have had no previous orientation in this aspect of health Anxiety and ambivalence are characteristic of the early stages of the training Proper motivation such as that supplied by recognition of a real need for the training can do much to ensure its ultimate success. Other important factors include planning the course in collaboration with those participating in it, adapting the content and the method of teaching to the basic educa tional level of the group and to the length and conditions of the training presenting the material at a rate compatible with its emotional acceptance and having the same instructors and making sure that they possess sufficient understanding of public health practice as well as of mental hygiene If the training is effective those who have taken it will experience a sense of positive emotional gain and a realization that they have acquired new insight into human emotions and behaviour as they occur in their patients and in themselves

- (2) establishment in collaboration with the Expert Committee on Biological Standardization of an international standard for each of these two substances
- (3) selection of a limited number of laboratories to undertake the chemical and serological control of cardiolipin and lecithin

The subcommittee suggested that WHO support this last activity financially and that the technical staff concerned be strengthened by the allocation of fellowships One or more of these laboratories should be selected in tropical or subtropical regions

The control centres in question could also carry out research work in certain very promising fields. For example substances related to cardiolipin in chemical composition have recently been prepared from the tubercle bacillus from certain vegetables and from wheat. A complex phosphatidic acid named sitolipin has recently been isolated in Finland from wheat methyo. Intial experiments indicate this substance to be suitable for use in the scrodiagnosis of syphilis. The subcommittee pointed out that the method of preparation of sitolipin which is doubtless cheap and easy to obtain, should be published in detail as soon as possible and that samples of the pure substances should be placed at the disposal of the laboratories accustomed to working with cardiolipin so that a comparison of the two substances may be made.

Treponema Studies

The subcommittee noted the value of the co operation established between WHO demonstration teams located in regions where various tre ponematoses are endemic and the International Treponematoses Laboratory Reference Centre in Baltimore Md USA. The dispatch of information and material in connexion with yaws and bejel for the purpose of applying Nelson's test is leading to progress in these investigations. The specificity of this test should be evaluated as well as the services which it might render in the case of subjects found to be seropositive by the usual tests but not showing any clinical symptoms of syphilis. The subcommittee discussed recent information concerning the culture of virulent treponema and its application to serological and cutaneous diagnostic tests. It will follow this research with interest as well as all efforts to maintain the infecting organism on artificial media.

In view of these new possibilities, the subcommittee suggested that detailed planning and organization of work for the conference be suspended until the question had been settled on the technical level by a pilot study. The plans for this study were established in collaboration with the Expert Committee on Biological Standardization. The aim is to determine whether freeze dried sera are suitable for complement fixation and floculation tests. The pilot study will be carried out in seven laboratories in different countries, each using a certain number of specified methods and will apply to 12 sera. The general report on the study should be available to the subcommittee within six months.

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Among the other subjects on the agenda of this session were the question of antigens based on cardiolipin and studies on treponema

Cardiolipia

The subcommittee studied the position as regards the production and use of cardiolipin and lecithin during the past year. Dr Mary Pangborn who discovered cardiolipin gave a report on present methods of production and control.

Production of these two reagents has increased to such an extent that they are now sold commercially However it is mainly in the hard currency areas that they are available Manufacture has also been undertaken in a few places outside this area, but the small quantities produced are not sufficient to meet the needs arising from routine use in all laboratories concerned In the view of the subcommittee the industrial production of these substances should be encouraged in soft currency areas where, it seems certain obstacles of a financial and technical nature are impeding production and slowing down experimental work. Furthermore it is neces sary for these new reagents whose use will become general to be controlled, and for all necessary guarantees to be obtained as regards the composition of the antigens. The advantages of the cardiolipin lecithin test would be lost if impure products were put on the market or used in the laboratories preparing them without suitable control. The control of cardiolipin and lecithin produced in the USA and in some other countries which so far has been carried out free of charge by the Division of Laboratories and Research of the New York State Department of Health is becoming too heavy a burden for this institution. Consequently bearing in mind the international significance of the use of these substances the subcommittee suggested certain ways in which WHO might contribute to guaranteeing the purity of the antigen reagents

(1) inclusion in the Pharmacopoea Internationalis of standards for cardiolioin and purified lecithin

- (2) establishment in collaboration with the Expert Committee on Biological Standardization of an international standard for each of these two substances
- (3) selection of a limited number of laboratories to undertake the chemical and serological control of cardiolipin and lecithin

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expenses might be used for more equipment and supplies. In selecting experts for specific assignments WHO should consult the health administrations of the governments concerned and whenever practicable give a choice of names

Statistics

Vital statistics were discussed in two different contexts first in considering over population and its effect on employment food production
and standard of fiving the committee asked the Regional Director to
co-operate with other international agencies which are dealing with this
problem and to obtain from the member countries all possible demographic
data secondly after stressing the importance of health and vital statistics

in appraising the health situation in a country the committee recommended that the Regional Director study the problem of health statistics in the region and consider the possibility of holding a short training course in Ceylon in 1951

Training of Medical and Related Personnel

Self support in terms of making full use of facilities within the region and expanding and improving these facilities was emphasized as the best means of training the medical and related personnel needed in South Fast Asa. The commenteer commended as a temporary measure the training of medical assistants who would work under the supervision of fully qualified doctors. The governments of the countries in the region were urged to promote the expansion of training facilities for nurses and to improve the status.

FIG 5 WHO REGIONAL COMMIT TEE FOR SOUTH EAST ASIA THIRD SESSION-II



PA R C G II I Lond M s A ng San (Daw Khin Kyi) Cha man

and working conditions of nursing personnel. Attention was also given to the training of santatrans and it was recommended that there be uniformity in such training with regard to basic educational qualifications syllabus and period of training.

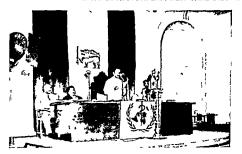
Environmental Sanitation and Nutrition

Environmental sanitation and nutrition were considered problems of particular importance to the region. Member countries were urged to

REGIONAL COMMITTEE FOR SOUTH-EAST ASIA

The third session of the WHO Regional Committee for South East Asia took place in late September at kandy, Ceylon At the opening meeting representatives of the eight countries of the region were addressed by MrS W R D Bandaranaike, Minister of Health and Locil Government of Ceylon A new Member State Indonesia, was welcomed The committee elected Mrs Aung San (Daw Khin Kyi) Director of Women and Children's Welfare of Burma as Chairman of the session and Dr Faqir Mohamed, Director of Health Service of Afghanistin, as Vice Chairman

FIG 4 WHO REGIONAL COMMITTEE FOR SOUTH EAST ASIA THIRD SESSION-I



Mr S W R D Bandaranalke Minister of Health Ceylon shown addressing the opening session

Organizational Problems

Organization and management matters were imong the first considerations at the meetings. The committee recommended that national health administrations set up separate sections with senior officers in charge to deal with international health matters. Co ordination of health projects assisted by the United Nations its specialized agencies and other bodies was also the subject of a recommendation, the Regional Director being requested to draw up plans for such co ordination within the region and to report on the progress achieved. It was decided that projects undertaken with WHO assistance should make use of the qualified personnel available within the recipient country and that the number of foreign members of teams should be kept to a minimum. The money thus saved on personnel

assistance The Regional Director was requested to assist governments by arranging for the loan of services of medical officers teachers and lecturers for medical and nursing training organizing conferences and courses for study of relevant subjects providing fellowships and furthering research on problems relative to maternal and child health. He is also to aid in the initiation and carrying out of school medical programmes

Disease Control

In studying disease control measures for the region the committee gave particular attention to smallpox which still causes heavy morbidity and mortality in South East Asia Every country was urged to intensify efforts to ensure vaccination and revaccination of its population. The preparation and use of dried vaccine was considered. Indonesia has been working successfully with this vaccine and India has been doing some experimental work on it. The committee urged the Regional Director to select a suitable member country and to assist its government in a nation wide campaign for the eradication of smallpox.

It was decided that only in special circumstances should the existing joint UNICEF/WHO malaria projects be continued beyond the stipulated two year period. These projects are to be turned over to national health administrations as soon as possible.

Discussion of veneral disease control in the region centred largely on two questions (I) the desirability of having a uniform seriological test procedure for all countries and (2) control of veneral diseases at scaports. The Regional Director was asked to nominate an experienced laboratory worker with whom the Regional Office could consult regarding problems of serological diagnosis. Member countries were asked to adhere to the Brussels Agreement concerning treatment centres for seafarers and it was recommended that a demonstration venerael disease-control project be undertaken at the port of Colombo Ceylon

Programme and Budget

The 1951 programme for South East Asia includes the establishment of a health demonstration area. The committee decided that if necessary conditions were fulfilled Ceylon should be considered as the site for this project. Two other areas may be selected for a joint programme with FAO to control malana develop general health services and increase food production. An FAO team is already in the field studying the agricultural potentialities of a likely site.

The 1952 budget proposed for the region amounts to \$8 500 000 this sum includes an increase intended for expenditure on field operations

The next session of the Regional Committee for South East Asia will be held in Rangoon Burma

take immediate steps to improve sanitary conditions and the Regional Director was asked to assist by encouraging the United Nations Technical Assistance Board to consider favourably requests from governments for aid in improving environmental sanitation, by promoting the establishment of public health engineering sections in national health administrations, and by exploring the possibilities of initiating small pilot projects in environ mental sanitation preferably in conjunction with WHO demonstration team activities. With regard to nutrition, it was decided that the problems of the region should be studied at an international training course to be held at the All India Institute of Hygiene and Public Health Calcutta, in 1951, under the joint auspices of the Government of India, the Food and Agriculture Organization (FAO), and WHO

Maternal and Child Health

Maternal and child health activities were stressed as a most important method of introducing better standards of living into relatively less developed areas — As part of the WHO programme—the Regional Committee

FIG. 6. WHO REGIONAL COMMITTEE FOR SOUTH EAST ASIA THIRD SESSION-III



Delegates at the opening of a health exhibit arranged by the Government of Ceylon Mrs Aung San (Daw Khin Kyl) at extreme left

for South East Asia recommended that (1) increased attention be paid to paediatrics (2) hospital facilities be provided for children (3) modern midwifery services be developed with particular emphasis on domicility service in rural areas and (4) full use be made of available international

Acting on the recommen dations of a subcommittee on programme which was established to consider activities for 1951 and 1952 the committee

- 1 urged Member States to make adequate provisions in their national budgets for public health services and for the train ing of necessary personnel
- 2 expressed the opinion that short term consultants should be appointed only for special pur poses and that regional advisers should spend sufficient time in the countries which they serve to enable them to accomplish their tasks satisfactorily
- 3 recommended that region al advisers on environmental sanitation and on malaria be appointed that the BCG vaccina tion campaign be continued and

FIG 8 WHO REGIONAL COMMITTEE FOR THE EASTERN MEDITERRANEAN THIRD SESSION—II



Mr H Bahar Minister of Health of East Be gal

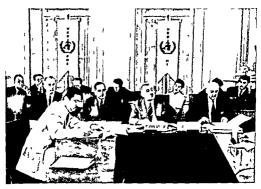
that the problem of rehabilitation of tuberculous patients also be considered an integral part of a comprehensive tuberculosis campaign that an intra regional training programme for venereal disease control be undertaken and countries in the region encouraged to develop research on treponematosis

- 4 noted provisions made for activities relative to typhus and relapsing fever bilharziasis cholera rabies leprosy nutrition maternal and child health and mental health.
- 5 requested the Regional Director to explore the possibility of convening a regional seminar on trachoma and to develop an intra regional and inter regional fellowship scheme for training personnel to derl with this disease to stimulate research on the epidemiology of leishmaniasis and include complementary programmes for leishmaniasis control in those of malaria demonstration teams operating in areas where the former disease is pre valent.
- 6 called upon member countries to develop an effective school health service and health programme for school age children to improve their smallpox vaccination services where necessary and to give attention to pertussis making its notification compulsory and developing the treatment with antibiotics. The Regional Director was requested to study further the value of mass vaccination against pertussis.

REGIONAL COMMITTEE FOR THE EASTERN MEDITERRANEAN

The Regional Committee for the Eastern Mediterrinean met for its third session from 4 to 7 September 1950 in Istinbul Turkey It was attended by representatives from Egypt Ethiopia France, Irin, Iraq Israel, the Lebanon Pakistan Saudi Arabia, Syria, Turkey, and the United Kingdom Dr N Karabuda (Turkey) was elected Chairman and Drs J S Saleh (Iran) and B Al Roumy (Saudi Arabia) Vice Chairmen Dr S Hayek (Lebanon) served as Rapporteur At the opening session, an address of welcome was given by Dr N R Belger Minister of Health of Turkey

FIG 7 WHO REGIONAL COMMITTEE FOR THE EASTERN MEDITERRANEAN THIRD SESSION-I



Left to right Médecin Colonel J Heifft (Vice Chairman) Lt Col M Jafar (Chairman) Sir Aly T Shousha Pasha (Regional Director) Dr A Machiavello (WHO)

The committee reviewed the action taken on decisions reached at its second session the resolutions of the Third World Health Assembly which were of particular interest to the region and the reports of the representatives on their national health problems and on international health activities

These overall conclusions are drawn from a study based on figures obtained from many countries and published by Dr M Pascua Deputy Director Health Statistics Division WHO in the Epidemiological and Vital Statistics Report 2 However these figures are incomplete either because information for 1949 is still lacking because it cannot be obtained or because the figures do not exist as is the case for vast regions

Natality

Analysis of the data concerning the various continents shows that "figures for crude burth rates are still decededly higher on the whole than those registered during the year immediately preceding World War II

Some examples taken from the list of countries mentioned in this study will give an idea of the birth rates in vanous parts of the world in 1949. The birth rate in the Union of South Africa is 267 per 1 000 inhabitants (white race only) in Canada 269 (206 in 1938) in Chile 33 2 in the USA 241 (about 180 in 1938) in Mexico 454 in Ceylon 399 in Israel (Jewsh population only) 293 (261 in 1948) in Japan 334 (271 in 1938) in the Indian Union 264—a rate slightly higher than that in 1948. In Germany (German Federal Republic) the birth rate has oscillated around 165 in the postwar years in England and Wales the rate in 1949 was 167 (151 in 1938) in Spain 212 in France 20 6 (146 in 1938) in Italy 200 (237 in 1938) in Portugal 250 in Sweden 174 (149 in 1938) in Switzerland 184 (152 in 1938) In Australia (full blooded aborigines not included) the birth rate rose to 229—a higher figure than for 1938

General mortality

General mortality rates in the countries mentioned above have been as follows. Union of South Africa (white race only) 9.2 per 1 000 inhabit tants. Canada 9.2 (the rate has been more or less stabulzed around this figure for several years). Chile 18.1 (23.5 in 1938). the USA 9.7 (10.6 in 1938). Mexico 17.9 (16.3 in 1948). Ceylon 12.6 Israel (Jewish population), 6.9 Japan 11.6 (17.7 in 1938). Indian Union 15.6 (23.7 in 1938). Germany (German Federal Republic). 10.1 (11.7 in 1938). Grath whole of the Reich). England and Wales 11.7 (11.6 in 1938). Spain 11.3 France. 13.5 (15.4 in 1938). Italy 10.4 (14.1 in 1938). Portugal 13.8 Sweden 9.9 (11.5 in 1938). Switzerland. 10.7 (11.6 in 1938). Australia (full blooded aborginges not included). 9.5

Infant mortality

Infant mortality for 1949 varied very little in the countries referred to in the article. As pointed out by the author some countries have attained

The committee authorized the Regional Director to act on its behalf in matters pertaining to the United Nations Technical Assistance Programme and urged the countries of the region to co-operate closely with the Regional

FIG 9 WHO REGIONAL COMMITTEE FOR THE EASTERN
MEDITERRANEAN THIRD SESSION—III



Left to right Dr J Oren (Israel) and Dr A H Toochi (Iraq)

Office concerning requests and projects relating to the health aspects of the programme

Epidemiological problems of the region were considered in some detail. The committee recommended that member countries conclude bilateral or multilateral sanitary agreements with neighbouring countries to aid in controlling diseases prevalent in the region. Uniformity in methods of reporting epidemiological information was also recommended and the Regional Director was requested to ask the health authorities of Iran Pakistan and Turkey to adhere to the Epidemiological Intelligence Service of the Eristern Mediterranean

The fourth session of the committee will be held in Teheran Iran in September 1951

NATALITY, GENERAL MORTALITY, AND INFANT MORTALITY IN 1949

Comparison of 1949 figures with those of 1948 gives the impression that there has been a slight drop in the birth rate in a large number of countries. On the other hand, the crude death rate from all causes was a little higher in 1949 than in 1948. Infant mortality has varied very little in most of the countries concerning which information is available.

has a wide knowledge of the health problems of the African continent. He also served as head of the WHO mission in Ethiopia. Before joining WHO he was Deputy Chief of Staff of the Netherlands Military Government and later Director General of Medical Services for the Royal Netherlands Army with the rank of Lieutenant General

The WHO Office for Africa will be located in Geneva pending the establishment of a permanent Regional Organization for Africa. Three such organizations has a elerady been set up for South East Asia in New Delhi for the Eastern Mediterranean in Alexandria and for the Americans at the Pan American Snattupy Bureau Washington in addition there is a Temporary Office for the Western Pacific in Hongkong and a WHO Office for Europe Located at Headquisters in Geneval

Public Health Nursing Programme in Costa Rica

The Ministry of Public Health of Costa Rea and the Pan American Santiary Bureau (PASB) have signed an agreement which will mittate a public health nursing programme This programme has as objectives the development of a general modern public health nursing service the promotion of in service education for the regular nursing staff of the Department of Health and the addition of a course in public health nursing to the curriculum of the school of nursing of the San Juan de. Dios Hospital In accordance with the agreement signed the PASB will provide the services of (1) a public health nursing consultant to the Department of Health to prepare and recommend detailed plans for the programme (2) a nursing education consultant to assist in the revision of the curriculum of the school of nursing mentioned above and (3) a public health nurse to carry out the plans of the consultants

EIG 10 AGREEMENT SIGNED RETWEEN THREEY AND WHO



Lett to right stad die Dr.M. Be her of the WHO a t tuberc fosisce t.e. D. A. A. I. Dillector. General of Health Millstry of Health a d Social Welfare a 6 d.D. N. Ka sbuds. Dep by Unde Sec etary Millstry of He ith a d Social Welfare a sead. Dr. E. Berthat WHO 1 berc fosisce the desired of th

a rate of 30 per 1,000 live births per year, and even lower. Thus in Southern Rhodesia the infant mortality rate is 29 per 1,000 (for white children), in the USA it is 31 in England and Wales, 32, in the Nether lands, 27 in Sweden, 23—this last being the lowest ever recorded in Europe. Progress in demography in these countries must necessarily be slow, 'a great proportion of the infant deaths now occurring in them being dependent on congenital factors prematurity and other conditions related to the neonatal period whose correction cannot now be expected to be so direct rapid and efficient as the reduction in mortality achieved in other phases of infancy has been in past decades

On the other hand in certain countries the infant mortality rate is still high. In Chile the annual rate since 1946 is about 160. In Egypt it is about 170. In Hungary about 100, in Portugal, it was 115 for the whole of the year 1949, in Czechoslovakia it will be about 83. In the Indian Union the 1948 rate was 131. In these countries the annual fluctuations are appreciable and a reduction in infant mortality could be brought about fairly quickly if a marked improvement in living conditions could be achieved.

Notes and News

Leprosy Consultant Visits Peru

Dr Lauro de Souza Lima. Pan American Sanitary Bureau consultant recently visited. Peru as part of his survey of South American countries. There are an estimated 3 000 per sons afflicted with leprosy in Peru. 1137 cases were registered in 1949. The disease seems to be endemic in the north-east region of the country. where 80 / of the cases are found. It shows a slow but continuous progress the nodular forms are especially prevalent (76 / of incidence).

Peru has a Department of Leprosy which with sufficient financial resources hopes to be able to develop a control programme against the disease. Plans have been made and a considerable amount of money allocated for a model leprosarium to be constructed in the Department of Loreto in the eastern part of Peru. Consideration is also being given to co-operative control activities with neighbouring countries—Bolivia Brazil Colombia and Ecuador. It has been suggested that a meeting of technicians on leprosy be held under the auspices of the Bureau to examine the bases for such co-operative action.

Chief of WHO Office for Africa Appointed

Dr François Daubenton Public Health Consultant to the Regional Office for the Eastern Mediterranean has been anned Chief of the newly created WIIO Office for Africa Dr Daubenton who spent more than twenty years in Africa as chief medical officer of a large Witwatersrand gold mining group and in various public health posts

has a wide knowledge of the health problems of the African continent. He also served as head of the WHO mission in Ethiopia. Before joining WHO he was Deputy Chief of Staff of the Netherlands Military Government and later Director General of Medical Services for the Royal Netherlands Army with the rank of Lieutenant General

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Left to right, standi q. Dr.M. Berke. of the WHO antitube culosis cs. 1 e. Dr.A. Ani. D. ector. Ge e at of Health Mi. Istry of Health a. d. Social Wells e. a. d.D. N. Xa. bb. da. Deputy D. der Sac ctay, Mini. try. of He Ith and Social Wells e. seated. D. E. Bermbet WHO L. berculosis consults. 1. D. E. H. Hustu d. dp. Ministe of Health a. Social Wells e. a. d.D. E. Tok. U. de. Saccriaty of St. ts. Ministry of Health a. Social Well se.

WHO and Turkey Sign Agreement

The Government of Turkey and WHO have signed a general agreement bring terms and conditions under which the Organization will render services a Tarke conferring immunities and privileges on WHO staff working their, in accuration the Convention on Immunities and Privileges for Specialized Agreement of the Convention on Immunities and Privileges for Specialized Agreement of the Antonia six accepted by the General Assembly Signe ones of the agreement of the Ustundagh Minister of Health of Turkey and Dr. Ah. Tarket Schools. Director of the WHO Regional Office for the East of Mind erraneous. Also, were Dr. E. Tok Under Secretary of Staff for Health, his Dept., Dr. and Dr. E. Berthet head of the WHO Tuberral'osis Control Demonstration and Tochritz at Islandial.

Dr Berthet was also received by the President of the Turkish Republik, U.C. No who expressed his satisfaction with the work being carried out by WHO = Total Of particular interest is the Tuberculosis Control Demonstration and Trainer Countries with the State of Standard being provided by the Total Government and the Antibaterculosis League of Istandard.

Seminar on Environmental Sanitation

The Government of the Netherlands the International Health Division of the Roll filer Foundation and WHO sponsored a seminar on environmental sanita and I so 27 November to 2 December Forty specialists from 16 European countries riet a the Hague to discuss sanitary engineering problems and their relation to public health

On the agenda were topics relating to the engineering control of man's environment. Special attention was given to the subject of training and utilization of sanitary engineering.

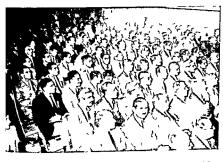
The seminar was opened by Dr C van den Berg Director General for International Health Affairs Ministry of Social Affairs the Netherlands and Professor R G Bab Sanitary Engineering Consultant of the WHO Special Office for Europe Dr W F J M Krul Professor of Sanitary Engineering Technical High School Delft and Direct of the Institute for Water Supply of the Netherlands Government acted as Chamman

Tropical Disease Symposium for Middle East

A Middle East medical symposium on the prophylactic and therap utic aspects of tropical diseases was held at the American University in Burit Lebanon on 18 and 19 November. This symposium sponsored by the United Nations Relief and World Agency for Falestine Refugees (UNRWAPRNE) the US Navy Medical Research Unit Cairro and WiffO was attended by nearly 500 physicians and public health workth

Among the speakers were Dr J J Sapero and Surgeon Commander W S Miller of the US Navy Medical Research Unit Catro Dr M Farid WHO malarilogish attached to UNRWAPRNE and Mr J Arbuthnot sanitary engineer with UNRWAPRNE Drs N J Conan Jr and H Gezon of the American University of Burut Drs J M Wer and G Hayes of the Rockefeller Foundation Drs M A Azim Bey and F R Hassan of the Egyptian Ministry of Public Health and WHO staff members—Drs F W Reynolds and F A Soliman Chief of Field Operations of the Veneral Diverse Section Head quarters and Veneral Diverse Adviss rat the Eastern Mediterranean Regional Office respectively Dr I H Hudson chief medical adviser to the Lefel sind sphilis control project in Iraq Dr I W Clements Chief of the Nutrition 8 elbin Headquarters Dr G Mettory Mat mal and Child Health Adviser Eastern Headquarters Dr G Mettory Mat mal and Child Health Adviser Eastern Headquarters of Chiefe Dr E Berthert M dical Officer in charge of the Tubertal of \$1 Studyland Training Centre Istanbol and Mr R L Bogue public health elbi that did build its the anti-veneral divess dem mittatt in project at Tatan Psyrif

FIG 11 TROPICAL DISEASE SYMPOSIUM



The subjects discussed included malaria treponemal diseases tuberculosis bilhariast intestinal diseases environmental samitation maternal and child health and health

Iran Abolishes Customs Duties on Insecticides and Drugs

At the meeting of the WHO Regional Committee for the Eastern Mediterraneau and in September I Iran a Health Minister Dr J S Saleh amnomed that the Persan and in September I Iran as Health Minister Dr J S Saleh amnomed that the Persan and men and about the second of th

Bilharziasis Survey in Middle East

A survey of the existence and spread of bilharziasis in the Middle East is being con fuected by Dr. M. Abdel Azim Bey. Director General of the Rural Hygiene Department Ministry of Public Health. Egypt who has been loaned to WHO for this assignment Ministry of Public Health. Egypt who has been loaned to WHO for this assignment Ministry of Public Health. Egypt who have been loaned to WHO for this assignment the investigation was started in the Gezira district in the border area of Syria and Turkey setween the Euphrates and Tigrs rivers. From there Dr Azim Bey will proceed to load and Saudi Arabia.

Bilharziasis is found in the Middle East chiefly in areas with small streams or intiditches which provide habitation for snails. Attention will be focussed on such the survey. Dr Azim Bey will be able to draw upon experience in Egypt, where the dihas been the subject of considerable study and public health action.

Upon completion of the survey Dr Azim Bey will make a riport to Dr Aly T Shousha Pasha Director of the WHO Regional Office for the Eastern Medi a following which the governments concerned will be informed of the results and the replaced before the next meeting of the Regional Committee for the Eastern Mediterran

Views on WHO

Eradication of Venereal Diseases *

With reference to the venereal disease control programme in Haiti the *Lancet* London (1950 1 772) comments

"That endemic diseases can be speedily eliminated has been shown by the eradica tion of malaria from areas and even (as in the case of Cyprus) whole countries An eradication attempt of a different sortmore ambitious because its aim is to remove the source of infection in man rather than eliminate an insect vector-is to be made in Haiti where penicillin is to be applied to the extinction of venereal disease. In this island republic about 25 / of the 31 million population are said to have venereal disease and some 85 / have vaws which it is hoped to eradicate at the same time. Ten mobile units will tour the island giving injections of peni cillin to all inhabitants. The campaign which is being undertaken by the World Health Organisation along with the gov ernment of Haiti and the United Nations International Children s Emergency Fund is expected to take two years to complete

This bold undertaking will be watched with close attention for if the attempt succeeds here it may also succeed else where. Much will depend on convicing populations that the effort is worth making.

Antimalarial Drugs

In conn, vion with the third report of th WHO Expert Committee on Malaria the Lancet London (1950 2 297) comments

It is not surprising that WHO's expert committee on malaria finds that no existing antimalarial drug has all the desired qualities Their ideal drug would be a causal prophylactic against all species of human malaria parasites would have a definite curative value and low toxicity and would be cheap If such a product has not yet been produced one must remember that different geographical strains of malaria parasites differ in their reactions to both prophylaxis and therapy and that the degree of premunition of the host may affect their action The efficacy of specific drugs is by no means the same every where

As the committee say the treatment of malana is firmly connected in the public mind with the use of quinne and for malarial emergencies injections of quinne are still generally recommended the evidence they adduce in favour of their opinion that certain synthetic drugs may possibly be equally effective for this

Harld Hick Ore 1 h Rp 5 r 1950 2



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